

EPA Registration Jacket 82542-14

ISB'S Front-end PRIA Completeness Screen

Draft 3; 10/25/07

EPA Receipt Date: DEC 24 2008		EPA Reg. Number: 82542-RU		
	Check List Item	Yes	No	N/A
1	Has the PRIA Fee been Paid ; is a copy of the check or Pay gov receipt included in the Submission Package?	X		
2	Is an Application Form (EPA Form 8570-1) Included in the Submission Package, is it completely filled out and signed including package type?	X		
3	Is a Confidential Statement of Formula (EPA Form 8570-29) Included in the Submission Package, is it completely filled out and signed (boxes 1-21)?	X		
4	Is a Formulator's Exemption Statement (EPA Form 8570-27) Included in the Submission Package?		X	
5	Is a Certification with Respect to Citation of Data (EPA Form 8570-34) Included in the Submission Package?	X		
6	Is a Data Matrix (EPA Form 8570-35) Included in the Submission Package?	X		
7	Is a Label Included in the Submission Package?	X		
8	Are Data Included in the Submission Package?	X		
9	Is the Submission an Amendment?		X	

Material to be added to an e-Jacket/Jacket

Reg. No. 82542-14

Description: Amended Label

1. ☒ Placement within the e-Jacket/jacket:

☒ Default: (chronological, top = newest)

☐ File Location: (PDF page number, i.e., "before page 45")

2. ☒ Send to Data Extraction contractors this material:

☒ Newly stamped accepted label

☐ Notification

☐ New CSF

☐ Other: _____

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Dianne Morgan

Phone: 305-6217 Division: RD/HB

Date: _____

JUN - 3 2010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

JUL -

Robert Hawk
Source Dynamics
10039 E. Troon Drive
Scottsdale, AZ 85262

SUBJECT: Label Amendments
Solera Diquat Landscape & Aquatic Herbicide
EPA Registration No. 82542-14
Solera Diquat 2L Desiccant
EPA Registration No. 82542-15

The label amendments referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable, provided the following label revisions are made:

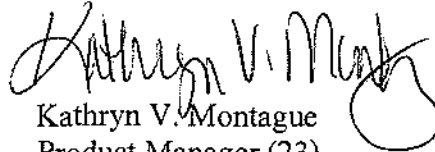
1. Revise the "Hazards to Humans and Domestic Animals" statement to read:
"Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear protective eyewear. Wear long-sleeved shirt, long pants, socks, shoes, and gloves."
2. The acute toxicity profile has determined that a "Dermal" statement is not required under the "First Aid" statements. However, you have the option to use Category III statements.
3. On page 5 of the labels, correct the spelling of the word "Height" (Application Height).
4. The "warranty" statements on the labels should be revised as follows:
 - a. Change "should" to "must".
 - b. Add "To the extent consistent with applicable law..." (1) at the beginning of the last sentence under "Conditions", (2) at the beginning of the first sentence, second paragraph, under "Disclaimer of Warranties", (3) and at the beginning of the first sentence, under "Limitations of Liability".

- 2 -

5. On page 3 of 82542-15 label, remove "General" and replace with "Product".

A stamped copy is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment. This amended labeling supersedes all previously accepted ones.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague". The signature is fluid and cursive, with a large loop at the end.

Kathryn V. Montague
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

Enclosures

Final printed label of June 13, 2009 with signal word revised December 4, 2009

SOLERA DIQUAT LANDSCAPE & AQUATIC HERBICIDE

Solera Diquat Landscape and Aquatic Herbicide contains diquat dibromide, the active ingredient used in Reward^R.

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL. DO NOT USE THIS PRODUCT FOR REFORMULATION.

ACTIVE INGREDIENT

Diquat dibromide [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinedium dibromide].....37.3%

OTHER INGREDIENTS:.....62.7%

TOTAL 100%

Contains 2.0 lbs. diquat cation per gal as 3.73 lbs. salt per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN

To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.



Manufactured for:

Source Dynamics, LLC
10039 E. Troon North Dr.
Scottsdale, Az. 85262

EPA Registration No: 82542-14
EPA Est. No.:
Net Contents: 2.5 Gallons

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUN - 3 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
Registered under EPA Reg. No.

82542-14

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as Natural Rubber, Selection Category A. [Wear protective eyewear.]* Child Resistant Packaging is required due to residential uses on the label and Toxicity Category II for the oral route of exposure.

*[Protective eyewear may be specified, if appropriate.]

PERSONAL PROTECTIVE EQUIPMENT

Some of the materials that are chemical-resistant to this product are: barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils). If you want more options, follow the instructions for category A on an EPA Chemical-Resistance Category Selection Chart.

Applicators and Other Handlers Must Wear:

- Coveralls over long-sleeve shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- Face shield when mixing or loading.

Exception: After this product has been diluted to 0.50% Solera Diquat or less in water (i.e., the labeled rate for some spot applications), applicators for AQUATIC SURFACE APPLICATIONS must, at a minimum, wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Long-sleeve shirt and long pants.
- Shoes plus socks.
- Waterproof gloves.
- Protective eyewear.

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.

User Safety Requirement

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. When using the closed system, mixers and loaders PPE requirements may be reduced or modified as specified in the WPS. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For Terrestrial Uses do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. For Aquatic Uses do not apply directly to water except as specified on this label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeve shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides {40 CFR Part 170}. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where here may be drift.

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F.

PESTICIDE DISPOSAL: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed

of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

SPECIFIC USE DIRECTIONS

Solera Diquat Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass, nonfood or feed crop); and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Solera Diquat Landscape and Aquatic Herbicide controls weeds by interfering with photosynthesis within green plant tissue. Weed plants should be succulent and actively growing for best results. Rinse all spray equipment thoroughly with water after use. Avoid spray drift to crops, ornamentals, and other desirable plants during application, as injury may result. Application to muddy water may result in reduced control. Minimize creating muddy water during application. Use of dirty or muddy water for Solera Diquat Landscape and Aquatic Herbicide dilution may result in reduced herbicidal activity. Avoid applying under conditions of high wind, water flow, or wave action.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations:

- The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

DROPLET SIZE:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections of the label).

CONTROLLING DROPLET SIZE:

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce the droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH:

For some use patterns, reducing the effective boom length to less than $\frac{1}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT:

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT:

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downside edges for the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

WIND:

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY:

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS:

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixing.

SENSITIVE AREAS:

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

COMMERCIAL GREENHOUSES AND NURSERIES

For general weed control in commercial greenhouses (beneath benches), field grown and container stock, and other similar areas, Solera Diquat Landscape and Aquatic Herbicide may be applied preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray. Solera Diquat Landscape and Aquatic Herbicide may also be applied preemergence in ornamental seed crops (except in the state of California). Avoid contact with desirable foliage as injury may occur. Do not use on food or feed crops.

Spot spray: 1-2 qts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide in a minimum of 15 gals. of water per acre. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture. Use an adequate spray volume to insure good coverage.

ORNAMENTAL SEED CROPS (FLOWERS, BULBS, ETC.) EXCEPT IN THE STATE OF CALIFORNIA

For preharvest desiccation of ornamental seed crops. NOT FOR FOOD OR FIBER CROPS.

Broadcast (Air or Ground): 1.5-2 pts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per acre in sufficient water (minimum of 5 gals. by air; 15 gals. by ground) for desiccation and weed burndown. Repeat as needed at no less than 5-day intervals up to three applications. Do not use seed, screenings, or waste as feed or for consumption.

DIRECTIONS FOR LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Solera Diquat Landscape and Aquatic Herbicide provides fast control of broadleaf and grassy weeds in industrial, recreational, golf course, commercial, residential, and public areas.

Solera Diquat Landscape and Aquatic Herbicide is a nonselective herbicide that rapidly kills undesirable above ground weed growth in 24-36 hours. Avoid application of Solera Diquat Landscape and Aquatic Herbicide to desirable plants.

Solera Diquat Landscape and Aquatic Herbicide is a contact/desiccant herbicide; it is essential to obtain complete coverage of the target weeds to get good control. Improper application technique and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

Difficult weeds (such as perennial or deeply-rooted weeds) can often be controlled by tank mixing Solera Diquat Landscape and Aquatic Herbicide with other systemic-type herbicides. Refer to other product labels for specific application directions.

For residual weed control, tank mix Solera Diquat Landscape and Aquatic Herbicide with a preemergent herbicide labeled for the intended use site. When mixing Solera Diquat Landscape and Aquatic Herbicide with another herbicide, it is recommended to mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes.

Source Dynamics, LLC has not tested all possible tank mixtures with other herbicides for compatibility, efficacy or other adverse effects. Before mixing with other herbicides Source Dynamics, LLC recommends you first consult your state experimental station, state university or extension agent.

Grounds maintenance weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray to control weeds in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides. Solera Diquat Landscape and Aquatic Herbicide can also be used for weed control around the edges and nonflooded portions of ponds, lakes and ditches.

Trim and Edge weed control: Solera Diquat Landscape and Aquatic Herbicide can be used to eliminate undesired grass and broadleaf plant growth in a narrow band along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches. Vegetation control with Solera Diquat Landscape and Aquatic Herbicide is limited to the spray application width. Do not exceed the labeled rate of Solera Diquat Landscape and Aquatic Herbicide as excessive rates may result in staining of concrete-based materials.

Solera Diquat Landscape and Aquatic Herbicide, since it does not translocate systemically, can be used as an edging or pruning tool when precisely applied to select areas of grass or to undesirable growth on desirable ornamental bedding plants, ground covers, etc.

Industrial weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray either alone or in combination with other herbicides as a fast burndown or control weeds in rights-of-ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas.

Spot spray: Apply either 1-2 qts. of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in sufficient water to insure good spray coverage. Add the labeled rate of 75% or greater nonionic surfactant per 100 gals. spray mixture. Greater water volumes are necessary if the target plants are tall and/or dense. It is recommended that 60 gals. or greater water volume be used to obtain good coverage of dense weeds.

TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate golf course turf and other turf areas prior to renovation, apply 1-2 pts. of Solera Diquat Landscape and Aquatic Herbicide per acre plus the labeled rate of a 75% or greater nonionic surfactant in 20-100 gals. of water (4 teaspoons of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate

of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced turf desiccation, especially in the case of thick turfgrass, water volumes should approach 100 gals. of water per acre.

For suppression of regrowth and quick desiccation of treated turfgrass, Solera Diquat Landscape and Aquatic Herbicide may be mixed with other systemic nonselective or systemic postemergence grassy weed herbicides. Refer to other product labels for specific application directions and restrictions.

Avoid spray contact with, or spray drift to, foliage of ornamental plants or food crops.

Do not graze livestock on treated turf or feed treated thatch to livestock.

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NONFOOD OR FEED CROP

For control of emerged annual broadleaf and grass weeds, including Little Barley*, Annual Bluegrass, Bromes including Rescuegrass, Sixweeks fescue, Henbit, Buttercup, and Carolina Geranium in established dormant bermudagrass lawns, parks, golf courses, etc.

Apply 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in 20-100 gals. of spray mix by ground as a broadcast application. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture.

Bermudagrass must be dormant at application. Application to actively growing bermudagrass may cause delay or permanent injury. Users in the extreme Southern areas should be attentive to the extent of dormancy at the time of application.

*For control of Little Barley, apply Solera Diquat Landscape and Aquatic Herbicide prior to the mid-boot stage.

AQUATIC USE DIRECTIONS

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling.

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game Agencies, State Water Conservation authorities, or Department of Natural Resources).

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, Solera Diquat Landscape and Aquatic Herbicide should be applied to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to still water (i.e. ponds, lakes, and drainage ditches) where there is minimal or no outflow to public waters.

and/or

For applications to public waters in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

- Corps of Engineers; or
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); or
- Applicators and/or Licensees (certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation).

Water Use Restrictions Following Applications With Solera Diquat Landscape And Aquatic Herbicide (Days)

Application Rate	Drinking	Fishing	Livestock/	Spray Tank	Spray Tank
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		and Swimming	Domestic Animals Consumption	Applications** and Irrigation to Turf and Landscape Ornamentals	Applications** and Irrigation to Food Crops and Production Ornamentals
2 gals./surface acre	3 days	0	1 day	3 days	5 days
1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (<0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

*Add a nonionic surfactant (with at least 75% of the constituents active as a spray adjuvant) at the rate recommended by the manufacturer.

**For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with Solera Diquat Landscape and Aquatic Herbicide before the specified time period. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Floating and Marginal Weeds Including:

Water lettuce, *Pistia stratiotes*

Water hyacinth, *Eichhornia crassipes*

Duckweed, *Lemna* spp.

Salvinia spp. (including *S. molesta*)

Pennywort (*Hydrocotyle* spp.)

Frog's Bit¹, *Limnobium spongia*

Cattails, *Typha* spp.

¹Not for use in California

Solera Diquat Landscape and Aquatic Herbicide may be applied by backpack, airboat, spray handgun, helicopter, airplane, or similar application equipment that results in thorough spray coverage.

Spot Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at 2 quarts per 100 gallons spray carrier (0.5% solution) with an approved aquatic wetting agent at 0.25-1.0% v/v (1 quart to 1 gallon per 100 gallons water). For cattail control, Solera Diquat Landscape and Aquatic Herbicide should be applied prior to flowering at the maximum application rate (8 quarts of Solera Diquat Landscape and Aquatic Herbicide/100 gallons spray carrier) plus the wetting agent. Repeat treatments may be necessary for complete control.

Spray to completely wet target weeds but not to runoff. Densely packed weeds or mats may require additional applications due to incomplete spray coverage. Re-treat as needed. For best results, retreat weed escapes within 2 weeks of the initial treatment.

Broadcast Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at the rate of 0.5-2.0 gallons per surface acre in sufficient carrier along with 16-32 oz./A of an approved wetting agent. Re-treat as necessary for densely populated weed areas. Good coverage is necessary for control of the target weeds.

For duckweed control, apply Solera Diquat Landscape and Aquatic Herbicide at 1-2 gallons/A.

Submersed Weeds Including:

Bladderwort, *Utricularia* spp.

Hydrilla, *Hydrilla verticillata*

Watermilfoils (including Eurasian), *Myriophyllum* spp.

Pondweeds¹, *Potamogeton* spp.

Coontail, *Ceratophyllum demersum*

Elodea, *Elodea* spp.

Brazilian Elodea, *Egeria densa*

Naiad, *Najas* spp.

Algae², *Spirogyra* spp. and *Pithophora* spp.

¹Solera Diquat Landscape and Aquatic Herbicide controls *Potamogetan* species except Richardson's pondweed, *P. richardsonii*.

²Suppression only. For control of *Spirogyra* and/or *Pithophora*, use Solera Diquat Landscape and Aquatic Herbicide in a tank mix with an approved algaecide.

For severe weed or algae infestations, the use of an approved algaecide either as a pretreatment to the Solera Diquat Landscape and Aquatic Herbicide application or in a tank mix, may result in enhanced weed control.

To control submersed weeds, apply Solera Diquat Landscape and Aquatic Herbicide in water at 0.5-2.0 gallons per surface acre (per 4 foot water depth). For severe weed infestations, use the 2.0 gallon per surface acre rate. For best results, re-treat as necessary on 14-21 day intervals. The table below shows how many gallons of Solera Diquat Landscape and Aquatic Herbicide to apply per surface acre based on water depth.

	Gallons of Solera Diquat Landscape and Aquatic Herbicide per Surface Acre			
	Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0.25 gal.	0.50 gal.	0.75 gal.	1.0 gal.
2 gallon/acre rate	0.50 gal.	1.0 gal.	1.5 gal.	2.0 gal.

Note: For water depths of 2 feet or less including shorelines, do not exceed 1 gallon per surface acre.

Subsurface Applications: Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement: Where submersed weeds such as Hydrilla, Bladderwort, or Coontail have reached the water surface and/or where the water is slowly moving through the weed growth, the use of an invert emulsion carrier injecting diluted Solera Diquat Landscape and Aquatic Herbicide near the bottom with weighted hoses may improve control. The addition of a copper based algaecide may improve control. If algae are present along with the submersed weeds, a pretreatment with a copper based algaecide may improve overall control.

Surface Application for Submerged Aquatic Weeds: Apply the recommended rate of Solera Diquat Landscape and Aquatic Herbicide as a spray in sufficient carrier to fully cover the target area. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present. For dense submersed weeds or water over 2 feet deep, a surface spray is not recommended (Solera Diquat Landscape and Aquatic Herbicide should be applied subsurface in these situations.)

If posting is required by your state or tribe – consult the agency responsible for pesticide regulations for specific details.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Source Dynamics LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: SOURCE DYNAMICS LLC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Source Dynamics LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

SOURCE DYNAMICS LLC DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT SOURCE DYNAMICS LLC'S ELECTION, THE REPLACEMENT OF PRODUCT.

In support of the requested change in signal word from Warning to Caution, the registrant is using Cite-All for the acute toxicology data requirements. This product has already been determined to be substantially similar to 100-1061, as stated in the TRB chemistry review dated April 14, 2009. The acute toxicity profile (dated May 28, 2007) for 100-1061 (and also 100-1063 and 100-1091) is as follows:

Acute oral toxicity	III	acceptable	MRID 47050701
Acute dermal toxicity	IV	acceptable	MRID 47050702
Acute inhalation toxicity	III	cited	
Primary eye irritation	III	acceptable	MRID 47050703
Primary dermal irritation	IV	acceptable	MRID 47050704
Dermal sensitization	neg	acceptable	MRID 47050705

Therefore, the appropriate signal word is CAUTION.

Hazards to Humans and Domestic Animals:

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear protective eyewear. Wear long –sleeved shirt, long pants, socks, shoes, and gloves.

First Aid:

If inhaled:

- Move the person to fresh air
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice

If swallowed:

- Call a poison control center or doctor for further treatment advice
- Have person sip a glass of water if able to swallow
- Do not induce vomiting unless told to by a poison control center or doctor
- Do not give anything to an unconscious person.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing
- Call a poison control center or doctor for further treatment advice

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Anthony V. Marks
PM-23
6/2/10

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 6/2/2010

EPA Reg No./File Symbol 82542-14

Page 1 of 5

Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1670	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis	NEW	not applicable; not a technical material		
830.1750	certification of limits	NEW	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	NEW	Source Dynamics LLC	OWN	
830.6302	color	47251903	Eligra LLC	PAY	
		47203602	Sharda USA LLC	PAY	
830.6303	physical state	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6304	odor	47251903	Eligra LLC	PAY	
		47203502	Sharda USA LLC	PAY	

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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DATA MATRIX

Date 6/2/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	stability to normal and elevated temperatures		not applicable; not a technical material		
830.6314	oxidation / reduction: chemical incompatibility	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6315	flammability	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.8316	explosibility	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6317	storage stability	47203502	Sharda USA LLC	PAY	
830.6319	miscibility	47203502	Sharda USA LLC	PAY	
830.6320	corrosion characteristics	47203502	Sharda USA LLC	PAY	
830.6321	dielectric breakdown voltage	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7000	pH	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7050	UV / visible absorption		not applicable: not a technical material		

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7100	viscosity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7200	melting point		not applicable: not a technical material		
830.7220	boiling point		not applicable: not a technical material		
830.7300	density / relative density/specific gravity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7370	dissociation constant in water		not applicable: not a technical material		
830.7570	octanol / water partition coefficient		not applicable: not a technical material		
830.7840	water solubility		not applicable: not a technical material		
830.7860	solubility in organic solvents		not applicable: not a technical material		
830.7950	vapor pressure		not applicable: not a technical material		
Signature <i>Robert Hawk</i>			Name and Title: Robert Hawk, Registration Manager		Date: 6/2/2010

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DATA MATRIX

Date 6/2/2010

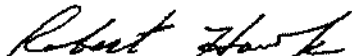
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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	
			Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
			Agricultural Handlers Exposure Task Force	PAY	
Signature 		Name and Title: Robert Hawk, Registration Manager		Date: 6/2/2010	

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Applicant's/Registrant's Name & Address

Source Dynamics LLC

10039 E. Troon North Drive, Scottsdale AZ 85262

Product

Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
other Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Gro-Pro, LLC	PAY	
			Etigra, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	
			Aceto Agriculture Chemicals Corporation	PAY	
			Nufarm Limited	PAY	
			Rotam North America, Inc.	PAY	

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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DATA MATRIX

Date 6/2/2010			EPA Reg No./File Symbol 82542-14		Page 1 of 5
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262			Product Solera Diquat Landscape and Aquatic Herbicide		
Ingredient diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			not applicable; not a technical material		
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Etigra LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Etigra LLC	PAY	
			Sharda USA LLC	PAY	
Signature <i>Robert Hawk</i>			Name and Title: Robert Hawk, Registration Manager		Date: 6/2/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			not applicable; not a technical material		
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			not applicable; not a technical material		

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number

Guideline Study Name

MRID Number

Submitter

Status

Note

Gro-Pro LLC

PAY

Sharda USA LLC

PAY

not applicable: not a technical material

not applicable: not a technical material

Gro-Pro LLC

PAY

Sharda USA LLC

PAY

not applicable: not a technical material

not applicable: not a technical material

not applicable: not a technical material

not applicable: not a technical material

not applicable: not a technical material

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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Source Dynamics LLC

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Product

Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number

Guideline Study Name

MRID Number

Submitter

Status

Note

Syngenta Crop Protection, Inc.

PAY

Nufarm Americas, Inc.

PAY

The Scotts Company

PAY

Monsanto Company

PAY

ABC Compounding Co., Inc.

PAY

Great Lakes Chemical Corp.

PAY

Chemisco

PAY

Valent USA Corporation

PAY

Spray Drift Task Force

PAY

Outdoor Residential Exposure Task Force

PAY

Agricultural Reentry Task Force

PAY

Monsanto Lawn & Garden Products

PAY

FIFRA Endangered Species Task Force LLC

PAY

Residential Exposure Joint Venture

PAY

Agricultural Handlers Exposure Task Force

PAY

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010

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Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number

Guideline Study Name

MRID Number

Submitter

Status

Note

Gro-Pro, LLC

PAY

Etigra, LLC

PAY

Sharda Worldwideexports Pvt., Ltd.

PAY

Sharda USA LLC

PAY

Althea Laboratories, Inc.

PAY

Aceto Agriculture Chemicals Corporation

PAY

Nufarm Limited

PAY

Rotam North America, Inc.

PAY

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/2/2010



June 1, 2010

Document Processing Desk (APPL)
Office of Pesticide Programs (P7504P)
Environmental Protection Agency
Room S-4900, One Potomac Yard (South Building)
2777 S. Crystal Drive
Arlington, VA 22202

Attn.: Kathryn Montague (PM 23), Herbicide Branch, Registration Division

Dear Ms. Montague:

Subject: Diquat Formulations: 82542-t4 and 82542-t5: Signal Word

Thank you for your e-mail today. I now see the problem, and I believe that there is a simple solution. Our Data Matrices for these two products of identical composition referenced an acute oral toxicity study for a 41% manufacturing-use product, not for a 37.3% end-use material. The Category II classification of this study was noted by the Technical Review Branch in a memorandum dated April 9, 2009 [DP Barcode D360710, Decision No. 404346], but Source Dynamics LLC failed to observe it. The remaining acute toxicity studies that were referenced support a Category III classification.

The problematic acute oral toxicity study that we referenced is as follows:

MRID 47099012

Patani, K. (2007) Acute Oral Toxicity Study of Diquat Dibromide Tech 4 t Percent in Rats. Project Number: 6457. Unpublished study prepared by Jai Research Foundation. 37 p.

Submitter: SHARDA WORLDWIDEEXPORTS PVT. LTD.

Submitter No.	Submission Date	Accession No.
082633	04/03/07	470990 12

Therefore Source Dynamics LLC wishes to reference an acute oral toxicity study for a 37.3% (3.73 pound per gallon) end-use formulation instead. This study is as follows:

MRID 0008 t506

Rittenhouse, J.R. (1979) The Acute Oral Toxicity of Diquat Water Weed Killer: SOCAL 1396/37:67 (S-1431). (Unpublished study received Sep 14, 1979 under 239-2247; submitted by Chevron Chemical Co., Richmond, Calif.; CDL:098973-B)

Submitter: THE SCOTTS COMPANY

Submitter No.	Submission Date	Administrative No.	Accession No.
000239	09/14/79	9F2265	098980 B
000239	09/14/79	9H5239	098980 B
000239	09/14/79	000239-2247	098980 B
000239	09/14/79	9F2265	098973 B
000239	09/14/79	000239-2247	098973 B
000239	09/14/79	9H5239	098973 B

Diquat Water Weed Killer (at one time EPA Reg. No. 239-1663, since transferred) contains 3.73 lb of diquat dibromide per gallon. The label is still available in PPIS. This study was referenced in the July 1995 Reregistration Eligibility Decision for Diquat Dibromide (EPA 738-R-95-0 t6), page 8, and it was noted that this study supports a Category III classification.

10039 E. Troon North Drive
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

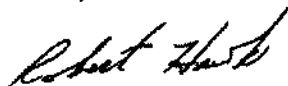
Please find attached the following documents for 82542-14 and 82542-15:

Application for Pesticide Amendment (8570-1)
Certification with Respect to Citation of Data (8570-34)
revised Data Matrix (8570-35).


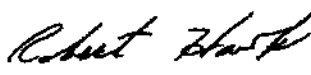
The only specific reference change from the previous data matrices is for the acute oral toxicity study, Guideline 870.1100. The generic references have also been updated in conformity with the March 31, 2010 Pesticide Data Submitters List. The acute oral toxicity study now referenced is itself no longer compensable.

Once again, thank you for bringing this to our attention. We apologize for the confusion.

Sincerely,



Robert Hawk
Registration Manager
Source Dynamics LLC
tel. 928-342-3489

 United States Environmental Protection Agency Washington, DC 20460		<input checked="" type="checkbox"/> Registration <input type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number
Application for Pesticide - Section I			
1. Company/Product Number 82542-14		2. EPA Product Manager Kathryn Montague	
4. Company/Product (Name) Solera Diquat Landscape and Aquatic Herbicide		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
Section - II			
<input type="checkbox"/> Amendment - Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	
<input type="checkbox"/> Resubmission in response to Agency letter dated _____		<input type="checkbox"/> "Me Too" Application.	
<input type="checkbox"/> Notification - Explain below.		<input checked="" type="checkbox"/> Other - Explain below.	
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Submission of revised Data Matrix and Certification with Respect to Citation of Data			
Section - III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No * Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt. No. per container	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 2.5 gal	
		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Other plastic sleeve	
Section - IV			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Robert Hawk		Title Registration Manager	
		Telephone No. (Include Area Code) 928-342-3489	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Registration Manager	
4. Typed Name Robert Hawk		5. Date June 1, 2010	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

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Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, AZ 85262	EPA Registration Number/File Symbol 82542-14
Active Ingredient(s) and/or representative test compound(s) diquat dibromide	Date June 1, 2010
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) terrestrial nonfood, aquatic nonfood	Product Name Solera Diquat Landscape and Aquatic Herbicide
NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).	
I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). <input type="checkbox"/>	

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). <input checked="" type="checkbox"/>	I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). <input type="checkbox"/>
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SECTION II: GENERAL OFFER TO PAY

(Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements) I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. ☒

SECTION III: CERTIFICATION

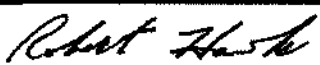
I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 6/1/2010	Typed or Printed Name and Title Robert Hawk, Registration Manager
--	------------------	--

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DATA MATRIX

Date 6/1/2010

EPA Reg No./File Symbol 82542-14

Page 1 of 5

Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1870	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis	NEW	not applicable; not a technical material		
830.1750	certification of limits	NEW	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	NEW	Source Dynamics LLC	OWN	
830.6302	color	47251903	Etigra LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6303	physical state	47300002	Gro-Pro LLC	PAY	
		47203502	Sharde USA LLC	PAY	
830.6304	odor	47251903	Etigra LLC	PAY	
		47203502	Sharda USA LLC	PAY	

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

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DATA MATRIX

Date 8/1/2010

EPA Reg No./File Symbol 82542-14

Page 2 of 5

Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	stability to normal and elevated temperatures		not applicable; not a technical material		
830.6314	oxidation / reduction: chemical incompatibility	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6315	flammability	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6316	explosibility	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6317	storage stability	47203502	Sharda USA LLC	PAY	
630.6319	miscibility	47203502	Sharda USA LLC	PAY	
830.6320	corrosion characteristics	47203502	Sharda USA LLC	PAY	
830.6321	dielectric breakdown voltage	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7000	pH	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7050	UV / visible absorption		not applicable; not a technical material		

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

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DATA MATRIX

Date 6/1/2010

EPA Reg No./File Symbol 82542-14

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide


Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7100	viscosity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7200	melting point		not applicable: not a technical material		
830.7220	boiling point		not applicable: not a technical material		
830.7300	density / relative density/specific gravity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7370	dissociation constant in water		not applicable: not a technical material		
830.7570	octanol / water partition coefficient		not applicable: not a technical material		
830.7840	water solubility		not applicable: not a technical material		
830.7860	solubility in organic solvents		not applicable: not a technical material		
830.7950	vapor pressure		not applicable: not a technical material		
TOXICOLOGY					
870.1100 (81-1)	acute oral toxicity	00081506	The Scotts Company	OLD	
870.1200 (81-2)	acute dermal toxicity	47099013	Sharda Worldwideexports Pvt. Ltd.	PAY	
Signature			Name and Title: Robert Hawk, Registration Manager		Date: 6/1/2010



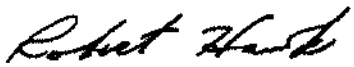
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DATA MATRIX

Date 6/1/2010			EPA Reg No./File Symbol 82542-14		Page 4 of 5
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262			Product Solera Diquat Landscape and Aquatic Herbicide		
Ingredient Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	acute inhalation toxicity	47099014	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2400 (81-4)	acute eye irritation	47099015	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2500 (81-5)	acute dermal irritation	47099016	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2600 (81-6)	skin sensitization	47050705	Syngenta Crop Protection, Inc.	PAY	
		00155475	The Scotts Company	OLD	
other Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	
Signature 			Name and Title: Robert Hawk, Registration Manager		Date: 6/1/2010

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DATA MATRIX

Date 6/1/2010		EPA Reg No./File Symbol 82542-14		Page 5 of 5	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient: Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
other Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
			Agricultural Handlers Exposure Task Force	PAY	
			Gro-Pro, LLC	PAY	
			Etiga, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	
			Aceto Agriculture Chemicals Corporation	PAY	
			Nufarm Limited	PAY	
			Rotam North America, Inc.	PAY	
Signature 			Name and Title: Robert Hawk, Registration Manager		Date: 6/1/2010

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Date 6/1/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			not applicable; not a technical material		
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Etigra LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Etigra LLC	PAY	
			Sharda USA LLC	PAY	

Signature


Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

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DATA MATRIX

Date 6/1/2010		EPA Reg No./File Symbol 82542-14		Page 2 of 5	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			not applicable; not a technical material		
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			not applicable; not a technical material		
Signature 			Name and Title: Robert Hawk, Registration Manager		Date: 6/1/2010

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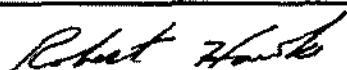
Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient: Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			not applicable: not a technical material		
			not applicable: not a technical material		
			Gro-Pro LLC	PAY	
			Sharda USA LLC	PAY	
			not applicable: not a technical material		
			not applicable: not a technical material		
			not applicable: not a technical material		
			not applicable: not a technical material		
			not applicable: not a technical material		
			The Scotts Company	OLD	
			Sharda Worldwideexports Pvt. Ltd.	PAY	

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	acute Inhalation toxicity	47099014	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2400 (81-4)	acute eye irritation	47099015	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2500 (81-5)	acute dermal irritation	47099016	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2600 (81-6)	skin sensitization	47060705	Syngenta Crop Protection, Inc.	PAY	
		00155475	The Scotts Company	OLD	
			Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	

Signature

Robert Hawk

Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

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DATA MATRIX

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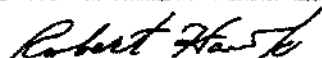
Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
			Agricultural Handlers Exposure Task Force	PAY	
			Gro-Pro, LLC	PAY	
			Eligra, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	
			Aceto Agriculture Chemicals Corporation	PAY	
			Nufarm Limited	PAY	
			Rotam North America, Inc.	PAY	

Signature



Name and Title: Robert Hawk, Registration Manager

Date: 6/1/2010

82542-14
-15
"UPRI" R340
SW change per US
But no new info
to do so so
really re ft
How to use and handle

After sub sm
to cited
(82033-2)
Sub Warning
both
Pcham 160-96-100
Sub sm 160-96-100
FD to 83524-14
Author



December 4, 2009

Document Processing Desk (APPL)
Office of Pesticide Programs (P7504C)
Environmental Protection Agency
Room S-4900, One Potomac Yard (South Building)
2777 S. Crystal Drive
Arlington, VA 22202

Attn: Joanne I. Miller (PM 23), Herbicide Branch, Registration Division (7505P)

Dear Ms. Miller:

Subject: \ Solera Diquat Landscape and Aquatic Herbicide (82542-14)
Solera Diquat 2L Desiccant (82542-15)
Signal Word

These two products are of identical composition and consist simply of a 37.3% w/w solution of diquat dibromide in [REDACTED] Source Dynamics LLC in our registration applications for these products submitted to the Agency draft labels with the signal word Caution. However, the Notices of Pesticide Registration dated May 14, 2009 advised us to change the signal word to Warning. No explanation was provided regarding the rationale for this change. Source Dynamics LLC complied with this request when final printed labels were submitted on June 13, 2009.

We have since noted, however, that this year the Agency has approved many other essentially identical 37.3% diquat dibromide formulations in which the signal word Caution was approved without comment. These Agency actions include the following:

Alligare Diquat Herbicide (81927-35; Alligare, LLC) on March 16, 2009

RedWing (81943-23; Phoenix Environmental Care LLC) on March 24, 2009

10039 E. Troon North Drive
Scottsdale, AZ 85262

Tel. 480.502.9289

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Fax 480.502.9268

Rotam Diquat Ag (83979-2; Rotam North America, Inc.) on July 13, 2009

Rotam Diquat Landscape and Aquatic Herbicide (83979-3; Rotam North America, Inc.) on July 13, 2009

Helm Diquat Aquatic (74530-25; Helm Agro US, Inc.) on September 25, 2009

Reglone Desiccant (100-1061; Syngenta Crop Protection, Inc.) on October 14, 2009

Aceto Diquat Dibromide 37.3% SL Landscape and Aquatic Herbicide (2749-532; Aceto Agricultural Chemicals Corp.) in November 2009

Aceto Diquat Dibromide 37.3% SL Ag (2749-530; (2749-532; Aceto Agricultural Chemicals Corp.) in November 2009

In view of these observations, we have concluded that the Agency's instruction to change the signal word to Caution to Warning on our two virtually identical products must have been in error.

Therefore we ask the Agency to amend the signal word on our products from Warning back to Caution. Please find enclosed EPA Form 8570-1 and five copies of the amended label for each product. The labels, with the exception of the signal word, are identical to the final labels submitted on June 13, 2009.

We believe that these are administrative actions only; no new technical data are required or cited to support these proposals.

Sincerely,



Rufus Bastian, President
Source Dynamics LLC
rbastian@solerasd.com



United States
Environmental Protection Agency
Washington, DC 20460

×	Registration
	Amendment
	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 82542-14	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="checked" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Solera Diquat Landscape and Aquatic Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="checked" type="checkbox"/>	Amendment - Explain below.	<input type="checkbox"/>	Final printed labels in response to Agency letter dated _____
<input type="checkbox"/>	Resubmission in response to Agency letter dated _____	<input type="checkbox"/>	"Me Too" Application.
<input type="checkbox"/>	Notification - Explain below.	<input type="checkbox"/>	Other - Explain below.

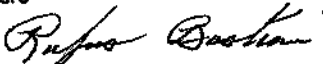
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Revision of signal word from Warning to Caution in order to be consistent with other substantially similar 37.3% diquat dibromide products.

Section - life

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No		Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt No. per container	
2. Type of Container					
<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____					
3. Location of Net Contents Information		4. Size(s) Retail Container		5. Location of Label Directions	
<input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		2.5 gal		<input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Other plastic sleeve			

Section - IV

1. Contact Point <i>(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</i>		
Name Rufus Bastian	Title President	Telephone No. (Include Area Code) 480-502-9289
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Rufus Bastian	5. Date December 4, 2009	

Decision Information for 82542-14

Decision Seq: 427609 Action Code: R340, HON-FAST-TRACK (INCLUDES CHANGES TO PRECAUTIONS)

FFS Start Date: 03-Feb-2010 Tentative Ind: No FFS Original Decision: ...

Due Date: 03-Jun-2010 75-Day Due Date: ... FFS EUP Decision: ...

OPP Target Due Dt: ... FFS Primary Decision: ...

Negotiated Due Dt: ... Start/Stop Clock: FQPA Clock: ...

Registrant: ... Days Elapsed: ...

Response Due Date: ...

Current Status: PENDING (04-Feb-2010)

Decision Status

Tracking

Create Resubmission

FFS Letters

Waiver Documentation

Action Code History

Decision Comments

Meetings & Milestones

Decision Ownership

Payment

FFS Information

Receipts

Unmatched Payments

FFS Negotiated Due Dates

Data Package

75 Day Letters

OPP Target Due Date

Reduced Risk

Receipts	Staff Member	Reg/DCI Number	Submission Due Dt	Response
S: 864023	Morgan, Dianne	82542-14	03-Jun-2010	PENDING
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">NA</div>				

Viewing Record 1 of 1

6/3

2/5/10

Dianne - You had these before -
300s, now recoded as PREA R340s.

Due 6/3/10,

~~Fast~~

Thanks,
Kay

21-Day Screen of Amendment
(Completed by Contractor)

21-day Expires on 2-24-10

Document Part Of: 82542-14
MRID, If Any: —

Content Screen: Recommended to
Pass/Fail

86-5 Review: Passed/Failed/NA

Document returned to:

LINDA ARRINGTON

PM 23

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 2-3-10 Payment Release

Experts In-Processing Signature: M F HARRINGTON Date 2-4-10

Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>82542-14</u>		EPA Receipt Date: <u>2-3-10</u>							
Items for Review			Yes	No	N/A*				
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type		X						
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form)				X				
	a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">yes</th> <th style="width: 50%; text-align: center;">no</th> </tr> <tr> <td></td> <td></td> </tr> </table>	yes	no					
yes	no								
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)				X				
	Certificate and data matrix consistent				X				
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">yes</th> <th style="width: 50%; text-align: center;">no</th> </tr> <tr> <td></td> <td></td> </tr> </table>	yes	no					
yes	no								
	If applicable, is there a letter of Authorization for exclusive use only.								
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)				X				
	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)				X				
5	a) Selective Method (Fee category experts use)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">yes</th> <th style="width: 50%; text-align: center;">no</th> </tr> <tr> <td></td> <td></td> </tr> </table>	yes	no					
yes	no								
b) Cite-All (Fee category experts use)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">yes</th> <th style="width: 50%; text-align: center;">no</th> </tr> <tr> <td></td> <td></td> </tr> </table>	yes	no						
yes	no								
c) Applicant owns all data (Fee category experts use)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">yes</th> <th style="width: 50%; text-align: center;">no</th> </tr> <tr> <td></td> <td></td> </tr> </table>	yes	no						
yes	no								
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)(link to http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels)		X						

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)			X
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)			X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)			X
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

* There are no studies associated with this submission

Passed

AB

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses even if a product is **currently registered** by consulting the inert Web

site [link to <http://www.epa.gov/opprd001/inerts/lists.html>] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to <http://www.epa.gov/opprd001/inerts/tips.pdf>] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

February 4, 2010

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-427609
EPA File Symbol or Registration Number: 82542-14
Product Name: SOLERA DIQUAT LANDSCAPE AND AQUATIC HERBICIDE
EPA Receipt Date: 10-Dec-2009
EPA Company Number: 82542
Company Name: SOURCE DYNAMICS, LLC

RUFUS BASTIAN
SOURCE DYNAMICS, LLC
10039 E. TROON NORTH DRIVE
SCOTTSDALE, AZ 85262-

SUBJECT: Receipt of Registration Amendment Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your amendment and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R340

NON-FAST-TRACK (INCLUDES CHANGES TO PRECAUTIONARY LABEL
STATEMENTS;SOURCE CHANGES TO AN UNREGISTERED SOURCE);

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee
Ombudsman at (703) 305-6249.

Sincerely,

Front End Processing Staff
Information Technology & Resources Management Division

A handwritten signature in black ink, appearing to be "R. Bastian", written over the typed name and title.



✓
PRIA Payments: 82542-14 and 82542-15

Robert Hawk to: John Jamula

Cc: rbastian

02/03/2010 08:22 PM

Dear Mr. Jamula,

A copy of two pay.gov receipts follows.

Regards.

Robert Hawk
Source Dynamics LLC
928-342-3489

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

Your transaction has been successfully completed.

Transaction Summary

Application Name: PRIA Service Fees ✓
Pay.gov Tracking ID: 250B750F ✓
Agency Tracking ID: 74099954705

Account Holder Name: Terry Stojic
Transaction Type: Sale
Transaction Amount: \$3,444.00
Billing Address: 7364 E Red Hawk St
City: Mesa
State/Province: AZ
Zip/Postal Code: 85207
Country: USA
Card Type: Master Card
Card Number: *****8835
Transaction Date: Feb 3, 2010 12:54:08 PM

Decision Number:
Registration Number: 82542-14
Company Name: Source Dynamics, LLC
Company Number: 82542
Action Code: R340

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

Your transaction has been successfully completed.

Transaction Summary

Application Name: PRIA Service Fees
Pay.gov Tracking ID: 250B75J3
Agency Tracking ID: 74099955300

Account Holder Name: Terry STojic
Transaction Type: Sale
Transaction Amount: \$3,444.00
Billing Address: 7364 E Red Hawk St
City: Mesa



June 13, 2009

Document Processing Desk
Office of Pesticide Programs (P7504C)
Environmental Protection Agency
Room S-4900, One Potomac Yard (South Building)
2777 S. Crystal Drive
Arlington, VA 22202

Attn: Joanne Miller (PM 23), Herbicide Branch, Registration Division (7505P)

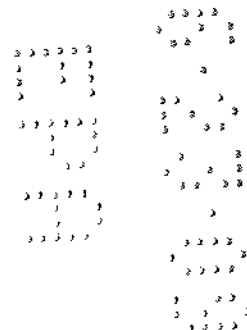
Dear Ms. Miller:

Subject: Solera Diquat Landscape and Aquatic Herbicide:
EPA Reg. No. 85242-14: Final Printed Label

Thank you for your Notice of Pesticide Registration dated May 14, 2009. Please find enclosed a final printed label and Form 8570-1.

Sincerely,

Rufus Bastian, President
Source Dynamics LLC
rbastian@solerasd.com



10039 E. Troon North Drive
Scottsdale, AZ 85262

Tel. 480.502.9289

54
Fax 480.502.9268



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 82542-14	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Solera Diquat Landscape and Aquatic Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to 5/14/2009 Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional pages if necessary. (For section I and Section II.)

Submission of final printed label.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 2.5 gal		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other		PICTURE SLEEVE	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Rufus Bastian		Title President	
		Telephone No. (include Area Code) 480-502-9289	
<p>Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>			
2. Signature <i>Rufus Bastian</i>		3. Title President	
4. Typed Name Rufus Bastian		5. Date June 13, 2009	
6. Date Application Received (Stamped)			

SOLERA DIQUAT LANDSCAPE and AQUATIC HERBICIDE

Solera Diquat Landscape and Aquatic Herbicide contains diquat dibromide, the active ingredient used in Reward^R.

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL. DO NOT USE THIS PRODUCT FOR REFORMULATION.

ACTIVE INGREDIENT

Diquat dibromide [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinediium dibromide].....37.3%

OTHER INGREDIENTS:.....62.7%

TOTAL 100%

Contains 2.0 lbs. diquat cation per gal as 3.73 lbs. salt per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN

To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.



Manufactured for:

Source Dynamics, LLC
10039 E. Troon North Dr.
Scottsdale, Az. 85262

EPA Registration No: 82542-14
EPA Est. No.: 37429-GA-1
Net Contents: 2.5 Gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as Natural Rubber, Selection Category A. [Wear protective eyewear.]* Child Resistant Packaging is required due to residential uses on the label and Toxicity Category II for the oral route of exposure.

*[Protective eyewear may be specified, if appropriate.]

PERSONAL PROTECTIVE EQUIPMENT

Some of the materials that are chemical-resistant to this product are: barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils). If you want more options, follow the instructions for category A on an EPA Chemical-Resistance Category Selection Chart.

Applicators and Other Handlers Must Wear:

- Coveralls over long-sleeve shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- Face shield when mixing or loading.

Exception: After this product has been diluted to 0.50% Solera Diquat or less in water (i.e., the labeled rate for some spot applications), applicators for AQUATIC SURFACE APPLICATIONS must, at a minimum, wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Long-sleeve shirt and long pants.
- Shoes plus socks.
- Waterproof gloves.
- Protective eyewear.

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.

User Safety Requirement

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. When using the closed system, mixers and loaders PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler's PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For Terrestrial Uses do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. For Aquatic Uses do not apply directly to water except as specified on this label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeve shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides {40 CFR Part 170}. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F.

PESTICIDE DISPOSAL: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed

of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!.

SPECIFIC USE DIRECTIONS

Solera Diquat Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. – except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass – nonfood or feed crop); and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Solera Diquat Landscape and Aquatic Herbicide controls weeds by interfering with photosynthesis within green plant tissue. Weed plants should be succulent and actively growing for best results. Rinse all spray equipment thoroughly with water after use. Avoid spray drift to crops, ornamentals, and other desirable plants during application, as injury may result. Application to muddy water may result in reduced control. Minimize creating muddy water during application. Use of dirty or muddy water for Solera Diquat Landscape and Aquatic Herbicide dilution may result in reduced herbicidal activity. Avoid applying under conditions of high wind, water flow, or wave action.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. The interaction of many equipment-and-weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations:

- The distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

DROPLET SIZE:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections of the label).

CONTROLLING DROPLET SIZE:

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce the droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH:

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT:

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT:

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downside edges for the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

WIND:

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY:

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS:

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixing.

SENSITIVE AREAS:

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

COMMERCIAL GREENHOUSES AND NURSERIES

For general weed control in commercial greenhouses (beneath benches), field grown and container stock, and other similar areas, Solera Diquat Landscape and Aquatic Herbicide may be applied preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray. Solera Diquat Landscape and Aquatic Herbicide may also be applied preemergence in ornamental seed crops (except in the state of California). Avoid contact with desirable foliage as injury may occur. Do not use on food or feed crops.

Spot spray: 1-2 qts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide in a minimum of 15 gals. of water per acre. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture. Use an adequate spray volume to insure good coverage.

ORNAMENTAL SEED CROPS (FLOWERS, BULBS, ETC.) EXCEPT IN THE STATE OF CALIFORNIA

For preharvest desiccation of ornamental seed crops. NOT FOR FOOD OR FIBER CROPS.

Broadcast (Air or Ground): 1.5-2 pts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per acre in sufficient water (minimum of 5 gals. by air; 15 gals. by ground) for desiccation and weed burndown. Repeat as needed at no less than 5-day intervals up to three applications. Do not use seed, screenings, or waste as feed or for consumption.

DIRECTIONS FOR LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Solera Diquat Landscape and Aquatic Herbicide provides fast control of broadleaf and grassy weeds in industrial, recreational, golf course, commercial, residential, and public areas.

Solera Diquat Landscape and Aquatic Herbicide is a nonselective herbicide that rapidly kills undesirable above ground weed growth in 24-36 hours. Avoid application of Solera Diquat Landscape and Aquatic Herbicide to desirable plants.

Solera Diquat Landscape and Aquatic Herbicide is a contact/desiccant herbicide; it is essential to obtain complete coverage of the target weeds to get good control. Improper application technique and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

Difficult weeds (such as perennial or deeply-rooted weeds) can often be controlled by tank mixing Solera Diquat Landscape and Aquatic Herbicide with other systemic-type herbicides. Refer to other product labels for specific application directions.

For residual weed control, tank mix Solera Diquat Landscape and Aquatic Herbicide with a preemergent herbicide labeled for the intended use site. When mixing Solera Diquat Landscape and Aquatic Herbicide with another herbicide, it is recommended to mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes.

Source Dynamics, LLC has not tested all possible tank mixtures with other herbicides for compatibility, efficacy or other adverse effects. Before mixing with other herbicides Source Dynamics, LLC recommends you first consult your state experimental station, state university or extension agent.

Grounds maintenance weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray to control weeds in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides. Solera Diquat Landscape and Aquatic Herbicide can also be used for weed control around the edges and nonflooded portions of ponds, lakes and ditches.

Trim and Edge weed control: Solera Diquat Landscape and Aquatic Herbicide can be used to eliminate undesired grass and broadleaf plant growth in a narrow band along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches. Vegetation control with Solera Diquat Landscape and Aquatic Herbicide is limited to the spray application width. Do not exceed the labeled rate of Solera Diquat Landscape and Aquatic Herbicide as excessive rates may result in staining of concrete-based materials.

Solera Diquat Landscape and Aquatic Herbicide, since it does not translocate systemically, can be used as an edging or pruning tool when precisely applied to select areas of grass or to undesirable growth on desirable ornamental bedding plants, ground covers, etc.

Industrial weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray either alone or in combination with other herbicides as a fast burndown or control weeds in rights-of-ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas.

Spot spray: Apply either 1-2 qts. of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in sufficient water to insure good spray coverage. Add the labeled rate of 75% or greater nonionic surfactant per 100 gals. spray mixture. Greater water volumes are necessary if the target plants are tall and/or dense. It is recommended that 60 gals. or greater water volume be used to obtain good coverage of dense weeds.

TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate golf course turf and other turf areas prior to renovation, apply 1-2 pts. of Solera Diquat Landscape and Aquatic Herbicide per acre plus the labeled rate of a 75% or greater nonionic surfactant in 20-100 gals. of water (4 teaspoons of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate

of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced turf desiccation, especially in the case of thick turfgrass, water volumes should approach 100 gals. of water per acre.

For suppression of regrowth and quick desiccation of treated turfgrass, Solera Diquat Landscape and Aquatic Herbicide may be mixed with other systemic nonselective or systemic postemergence grassy weed herbicides. Refer to other product labels for specific application directions and restrictions.

Avoid spray contact with, or spray drift to, foliage of ornamental plants or food crops.

Do not graze livestock on treated turf or feed treated thatch to livestock.

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NONFOOD OR FEED CROP

For control of emerged annual broadleaf and grass weeds, including Little Barley*, Annual Bluegrass, Bromes including Rescuegrass, Sixweeks fescue, Henbit, Buttercup, and Carolina Geranium in established dormant bermudagrass lawns, parks, golf courses, etc.

Apply 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in 20-100 gals. of spray mix by ground as a broadcast application. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture.

Bermudagrass must be dormant at application. Application to actively growing bermudagrass may cause delay or permanent injury. Users in the extreme Southern areas should be attentive to the extent of dormancy at the time of application.

*For control of Little Barley, apply Solera Diquat Landscape and Aquatic Herbicide prior to the mid-boot stage.

AQUATIC USE DIRECTIONS

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling.

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game Agencies, State Water Conservation authorities, or Department of Natural Resources).

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, Solera Diquat Landscape and Aquatic Herbicide should be applied to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to still water (i.e. ponds, lakes, and drainage ditches) where there is minimal or no outflow to public waters.

and/or

For applications to public waters in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

- Corps of Engineers; or
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); or
- Applicators and/or Licensees (certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation).

Water Use Restrictions Following Applications With Solera Diquat Landscape And Aquatic Herbicide (Days)

Application Rate	Drinking	Fishing and Swimming	Livestock/ Domestic Animals Consumption	Spray Tank Applications** and Irrigation to Turf and Landscape Ornamentals	Spray Tank Applications** and Irrigation to Food Crops and Production Ornamentals
2 gals./surface acre	3 days	0	1 day	3 days	5 days
1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (<0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

*Add a nonionic surfactant (with at least 75% of the constituents active as a spray adjuvant) at the rate recommended by the manufacturer.

**For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with Solera Diquat Landscape and Aquatic Herbicide before the specified time period. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Floating and Marginal Weeds Including:

Water lettuce, *Pistia stratiotes*

Water hyacinth, *Eichhornia crassipes*

Duckweed, *Lemna* spp.

Salvinia spp. (including *S. molesta*)

Pennywort (*Hydrocotyle* spp.)

Frog's Bit¹, *Limnobium spongia*

Cattails, *Typha* spp.

¹Not for use in California

Solera Diquat Landscape and Aquatic Herbicide may be applied by backpack, airboat, spray handgun, helicopter, airplane, or similar application equipment that results in thorough spray coverage.

Spot Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at 2 quarts per 100 gallons spray carrier (0.5% solution) with an approved aquatic wetting agent at 0.25-1.0% v/v (1 quart to 1 gallon per 100 gallons water). For cattail control, Solera Diquat Landscape and Aquatic Herbicide should be applied prior to flowering at the maximum application rate (8 quarts of Solera Diquat Landscape and Aquatic Herbicide/100 gallons spray carrier) plus the wetting agent. Repeat treatments may be necessary for complete control.

Spray to completely wet target weeds but not to runoff. Densely packed weeds or mats may require additional applications due to incomplete spray coverage. Re-treat as needed. For best results, retreat weed escapes within 2 weeks of the initial treatment.

Broadcast Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at the rate of 0.5-2.0 gallons per surface acre in sufficient carrier along with 16-32 oz./A of an approved wetting agent. Re-treat as necessary for densely populated weed areas. Good coverage is necessary for control of the target weeds.

For duckweed control, apply Solera Diquat Landscape and Aquatic Herbicide at 1-2 gallons/A.

Submersed Weeds Including:

Bladderwort, *Utricularia* spp.

Hydrilla, *Hydrilla verticillata*

Watermilfoils (including Eurasian), *Myriophyllum* spp.

Pondweeds¹, *Potamogeton* spp.

Coontail, *Ceratophyllum demersum*

Elodea, *Elodea* spp.

Brazilian Elodea, *Egeria densa*

Naiad, *Najas* spp.

Algae², *Spirogyra* spp. and *Pithophora* spp.

¹Solera Diquat Landscape and Aquatic Herbicide controls *Potamogeton* species except Richardson's pondweed, *P. richardsonii*.

²Suppression only. For control of *Spirogyra* and/or *Pithophora*, use Solera Diquat Landscape and Aquatic Herbicide in a tank mix with an approved algaecide.

For severe weed or algae infestations, the use of an approved algaecide either as a pretreatment to the Solera Diquat Landscape and Aquatic Herbicide application or in a tank mix, may result in enhanced weed control.

To control submersed weeds, apply Solera Diquat Landscape and Aquatic Herbicide in water at 0.5-2.0 gallons per surface acre (per 4 foot water depth). For severe weed infestations, use the 2.0 gallon per surface acre rate. For best results, re-treat as necessary on 14-21 day intervals. The table below shows how many gallons of Solera Diquat Landscape and Aquatic Herbicide to apply per surface acre based on water depth.

	Gallons of Solera Diquat Landscape and Aquatic Herbicide per Surface Acre Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0.25 gal.	0.50 gal.	0.75 gal.	1.0 gal.
2 gallon/acre rate	0.50 gal.	1.0 gal.	1.5 gal.	2.0 gal.

Note: For water depths of 2 feet or less including shorelines, do not exceed 1 gallon per surface acre.

Subsurface Applications: Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement: Where submersed weeds such as Hydrilla, Bladderwort, or Coontail have reached the water surface and/or where the water is slowly moving through the weed growth, the use of an invert emulsion carrier injecting diluted Solera Diquat Landscape and Aquatic Herbicide near the bottom with weighted hoses may improve control. The addition of a copper based algaecide may improve control. If algae are present along with the submersed weeds, a pretreatment with a copper based algaecide may improve overall control.

Surface Application for Submerged Aquatic Weeds: Apply the recommended rate of Solera Diquat Landscape and Aquatic Herbicide as a spray in sufficient carrier to fully cover the target area. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present. For dense submersed weeds or water over 2 feet deep, a surface spray is not recommended (Solera Diquat Landscape and Aquatic Herbicide should be applied subsurface in these situations.)

If posting is required by your state or tribe – consult the agency responsible for pesticide regulations for specific details.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Source Dynamics LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: SOURCE DYNAMICS LLC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE.

ON THIS LABEL. No agent of Source Dynamics LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

SOURCE DYNAMICS LLC DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT SOURCE DYNAMICS LLC'S ELECTION, THE REPLACEMENT OF PRODUCT.

A collection of 15 small, stylized line drawings of various insects, including beetles, flies, and bees, arranged in a grid-like fashion.



United States
Environmental Protection Agency
Office of Pesticide Programs (7505C)
Washington, DC 20460

Notice of Supplemental Distribution of a Registered Pesticide Product

Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product

82542-14

Distributor Company Number

84237

Note: Do not submit distributor product labels

Name of Registered Product (basic product name accepted by EPA)

Solera Diquat Landscape and Aquatic Herbicide

Distributor Product Name

Solera Oquat Landscape & Aquatic Herbicide

Name and Address of Distributor (Type; include ZIP code)

Solera ATO, LLC
7364 E. Red Hawk St.
Mesa, Az. 85207

Read All Conditions Before Signing

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

Date

Vase Stojan

19 May 2009

Registrant


I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

Date

Rufus Bastian

05/19/2009

	<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY</p> <p align="center">Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p>	<p>EPA Reg. Number: 82542-14</p>	<p>Date of Issuance: MAY 14 2009</p>
<p>NOTICE OF PESTICIDE:</p> <p><input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p>		<p>Term of Issuance: conditional</p> <p>Name of Pesticide Product: Solera Diquat Landscape and Aquatic Herbicide</p>	
<p>Name and Address of Registrant (include ZIP Code): Source Dynamics, LLC 10039 E Troon North Drive Scottsdale, AZ 85262</p>			
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your products under FIFRA section 4. 2. Make the following label changes: <ol style="list-style-type: none"> a. Change the "EPA Registration Number to: "82542-14." b. Revise the "Precautionary Statement" to read as follows: SIGNAL WORD: WARNING SPANISH SIGNAL WORD: AVISO Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.) 			
<p>Signature of Approving Official:</p> <p>Joanne I. Miller Product Manager 23 Herbicide Branch Registration Division (7505P)</p>		<p>Date:</p> <p>MAY 14 2009</p>	

Hazards to Humans and Domestic Animals:

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as Natural Rubber, Selection Category A. [Wear protective eyewear.])* Child Resistant Packaging is required due to residential uses on the label and Toxicity Category II for the oral route of exposure.

*[Protective eyewear may be specified, if appropriate.]

- c. Under the "Personal Protective Equipment" area of the labeling:
 - i. In the section on what applicators and other handlers must wear, revise the statement to read: "Coveralls over long-sleeved shirt and long pants."
 - ii. In the section beginning with "Discard clothing...", place the following heading above the statement: "User Safety Requirement".
 - d. In the "Early-entry PPE" section of the labeling revise the first statement to read: "Coveralls over long-sleeve shirt and long pants". Revise the second statement to read: "Chemical-resistant gloves."
3. Within one year from the date of this Notice, conduct one year studies for guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics) and submit the results in electronic and hard copy format. It is recommended that the observations be made at 0, 3, 6, 9 and 12 month intervals.

Submit one copy of the revised final printed label before the product is released for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Enclosures

SOLERA DIQUAT LANDSCAPE and AQUATIC HERBICIDE

Solera Diquat Landscape and Aquatic Herbicide contains diquat dibromide, the active ingredient used in Reward^R.

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL. DO NOT USE THIS PRODUCT FOR REFORMULATION.

ACTIVE INGREDIENT

Diquat dibromide [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinediium dibromide].....37.3%

OTHER INGREDIENTS:.....62.7%

TOTAL 100%

Contains 2.0 lbs. diquat cation per gal as 3.73 lbs. salt per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN

To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.



Manufactured for:

Source Dynamics, LLC
10039 E. Troon North Dr.
Scottsdale, Az. 85262

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAY 14 2009

EPA Registration No: 82542-x
EPA Est. No.: XXXXX-XXX
Net Contents: 2.5 Gallons

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

82542-14

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some of the materials that are chemical-resistant to this product are: barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils). If you want more options, follow the instructions for category A on an EPA Chemical-Resistance Category Selection Chart.

Applicators and Other Handlers Must Wear:

- Coveralls over short-sleeved shirt and short pants or coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- Face shield when mixing or loading.

Exception: After this product has been diluted to 0.50% Solera Diquat or less in water (i.e., the labeled rate for some spot applications), applicators for AQUATIC SURFACE APPLICATIONS must, at a minimum, wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Waterproof gloves.
- Protective eyewear.

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. When using the closed system, mixers and loaders PPE requirements may be reduced or modified as specified in the WPS. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler's PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For Terrestrial Uses do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. For Aquatic Uses do not apply directly to water except as specified on this label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants, or coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides {40 CFR Part 170}. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F.

PESTICIDE DISPOSAL: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins

to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!.

SPECIFIC USE DIRECTIONS

Solera Diquat Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. – except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass – nonfood or feed crop); and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Solera Diquat Landscape and Aquatic Herbicide controls weeds by interfering with photosynthesis within green plant tissue. Weed plants should be succulent and actively growing for best results. Rinse all spray equipment thoroughly with water after use. Avoid spray drift to crops, ornamentals, and other desirable plants during application, as injury may result. Application to muddy water may result in reduced control. Minimize creating muddy water during application. Use of dirty or muddy water for Solera Diquat Landscape and Aquatic Herbicide dilution may result in reduced herbicidal activity. Avoid applying under conditions of high wind, water flow, or wave action.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. The interaction of many equipment-and-weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations:

- The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

DROPLET SIZE:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections of the label).

CONTROLLING DROPLET SIZE:

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce the droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH:

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT:

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT:

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downside edges for the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

WIND:

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY:

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS:

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixing.

SENSITIVE AREAS:

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

COMMERCIAL GREENHOUSES AND NURSERIES

For general weed control in commercial greenhouses (beneath benches), field grown and container stock, and other similar areas, Solera Diquat Landscape and Aquatic Herbicide may be applied preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray. Solera Diquat Landscape and Aquatic Herbicide may also be applied preemergence in ornamental seed crops (except in the state of California). Avoid contact with desirable foliage as injury may occur. Do not use on food or feed crops.

Spot spray: 1-2 qts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide in a minimum of 15 gals. of water per acre. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture. Use adequate spray volume to insure good coverage.

ORNAMENTAL SEE CROPS (FLOWERS, BULBS, ETC.) EXCEPT IN THE STATE OF CALIFORNIA

For preharvest desiccation of ornamental seed crops. NOT FOR FOOD OR FIBER CROPS.

Broadcast (Air or Ground): 1.5-2 pts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per acre in sufficient water (minimum of 5 gals. by air; 15 gals. by ground) for desiccation and weed burndown. Repeat as needed at no less than 5-day intervals up to three applications. Do not use seed, screenings, or waste as feed or for consumption.

DIRECTIONS FOR LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Solera Diquat Landscape and Aquatic Herbicide provides fast control of broadleaf and grassy weeds in industrial, recreational, golf course, commercial, residential, and public areas.

Solera Diquat Landscape and Aquatic Herbicide is a nonselective herbicide that rapidly kills undesirable above ground weed growth in 24-36 hours. Avoid application of Solera Diquat Landscape and Aquatic Herbicide to desirable plants.

Solera Diquat Landscape and Aquatic Herbicide is a contact/desiccant herbicide; it is essential to obtain complete coverage of the target weeds to get good control. Improper application technique and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

Difficult weeds (such as perennial or deeply-rooted weeds) can often be controlled by tank mixing Solera Diquat Landscape and Aquatic Herbicide with other systemic-type herbicides. Refer to other product labels for specific application directions.

For residual weed control, tank mix Solera Diquat Landscape and Aquatic Herbicide with a preemergent herbicide labeled for the intended use site. When mixing Solera Diquat Landscape and Aquatic Herbicide with another herbicide, it is recommended to mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes.

Source Dynamics, LLC has not tested all possible tank mixtures with other herbicides for compatibility, efficacy or other adverse effects. Before mixing with other herbicides Source Dynamics, LLC recommends you first consult your state experimental station, state university or extension agent.

Grounds maintenance weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray to control weeds in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides. Solera Diquat Landscape and Aquatic Herbicide can also be used for weed control around the edges and nonflooded portions of ponds, lakes and ditches.

Trim and Edge weed control: Solera Diquat Landscape and Aquatic Herbicide can be used to eliminate undesired grass and broadleaf plant growth in a narrow band along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches. Vegetation control with Solera Diquat Landscape and Aquatic Herbicide is limited to the spray application width. Do not exceed the labeled rate of Solera Diquat Landscape and Aquatic Herbicide as excessive rates may result in staining of concrete-based materials.

Solera Diquat Landscape and Aquatic Herbicide, since it does not translocate systemically, can be used as an edging or pruning tool when precisely applied to select areas of grass or to undesirable growth on desirable ornamental bedding plants, ground covers, etc.

Industrial weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray either alone or in combination with other herbicides as a fast burndown or control weeds in rights-of-ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas.

Spot spray: Apply either 1-2 qts. of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in sufficient water to insure good spray coverage. Add the labeled rate of 75% or greater nonionic surfactant per 100 gals. spray mixture. Greater water volumes are necessary if the target plants are tall and/or dense. It is recommended that 60 gals. or greater water volume be used to obtain good coverage of dense weeds.

TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate golf course turf and other turf areas prior to renovation, apply 1-2 pts. of Solera Diquat Landscape and Aquatic Herbicide per acre plus the labeled rate of a 75% or greater nonionic surfactant in 20-100 gals. of water (4 teaspoons of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced turf desiccation, especially in the case of thick turfgrass, water volumes should approach 100 gals. of water per acre.

For suppression of regrowth and quick desiccation of treated turfgrass, Solera Diquat Landscape and Aquatic Herbicide may be mixed with other systemic nonselective or systemic postemergence grassy weed herbicides. Refer to other product labels for specific application directions and restrictions.

Avoid spray contact with, or spray drift to, foliage of ornamental plants or food crops.
Do not graze livestock on treated turf or feed treated thatch to livestock.

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NONFOOD OR FEED CROP

For control of emerged annual broadleaf and grass weeds, including Little Barley*, Annual Bluegrass, Bromes including Rescuegrass, Sixweeks fescue, Henbit, Buttercup, and Carolina Geranium in established dormant bermudagrass lawns, parks, golf courses, etc.

Apply 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in 20-100 gals. of spray mix by ground as a broadcast application. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture.

Bermudagrass must be dormant at application. Application to actively growing bermudagrass may cause delay or permanent injury. Users in the extreme Southern areas should be attentive to the extent of dormancy at the time of application.

*For control of Little Barley, apply Solera Diquat Landscape and Aquatic Herbicide prior to the mid-boot stage.

AQUATIC USE DIRECTIONS

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling.

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game Agencies, State Water Conservation authorities, or Department of Natural Resources).

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, Solera Diquat Landscape and Aquatic Herbicide should be applied to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to still water (i.e. ponds, lakes, and drainage ditches) where there is minimal or no outflow to public waters.

and/or

For applications to public waters in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

- Corps of Engineers; or
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); or
- Applicators and/or Licensees (certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation).

Water Use Restrictions Following Applications With Solera Diquat Landscape And Aquatic Herbicide (Days)

Application Rate	Drinking	Fishing and Swimming	Livestock/ Domestic Animals Consumption	Spray Tank Applications** and Irrigation to Turf and Landscape Ornamentals	Spray Tank Applications** and Irrigation to Food Crops and Production Ornamentals
2 gals./surface acre	3 days	0	1 day	3 days	5 days

1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (<0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

* Add a nonionic surfactant (with at least 75% of the constituents active as a spray adjuvant) at the rate recommended by the manufacturer.

**For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with Solera Diquat Landscape and Aquatic Herbicide before the specified time period. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Floating and Marginal Weeds Including:

Water lettuce, *Pistia stratiotes*

Water hyacinth, *Eichhornia crassipes*

Duckweed, *Lemna* spp.

Salvinia spp. (including *S. molesta*)

Pennywort (*Hydrocotyle* spp.)

Frog's Bit¹, *Limnobium spongia*

Cattails, *Typha* spp.

¹Not for use in California

Solera Diquat Landscape and Aquatic Herbicide may be applied by backpack, airboat, spray handgun, helicopter, airplane, or similar application equipment that results in thorough spray coverage.

Spot Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at 2 quarts per 100 gallons spray carrier (0.5% solution) with an approved aquatic wetting agent at 0.25-1.0% v/v (1 quart to 1 gallon per 100 gallons water). For cattail control, Solera Diquat Landscape and Aquatic Herbicide should be applied prior to flowering at the maximum application rate (8 quarts of Solera Diquat Landscape and Aquatic Herbicide/100 gallons spray carrier) plus the wetting agent. Repeat treatments may be necessary for complete control.

Spray to completely wet target weeds but not to runoff. Densely packed weeds or mats may require additional applications due to incomplete spray coverage. Re-treat as needed. For best results, retreat weed escapes within 2 weeks of the initial treatment.

Broadcast Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at the rate of 0.5-2.0 gallons per surface acre in sufficient carrier along with 16-32 oz./A of an approved wetting agent. Re-treat as necessary for densely populated weed areas. Good coverage is necessary for control of the target weeds.

For duckweed control, apply Solera Diquat Landscape and Aquatic Herbicide at 1-2 gallons/A.

Submersed Weeds Including:

Bladderwort, *Utricularia* spp.

Hydrilla, *Hydrilla verticillata*

Watermilfoils (including Eurasian), *Myriophyllum* spp.

Pondweeds¹, *Potamogeton* spp.

Coontail, *Ceratophyllum demersum*

Elodea, *Elodea* spp.

Brazilian Elodea, *Egeria densa*

Naiad, *Najas* spp.

Algae², *Spirogyra* spp. and *Pithophora* spp.

¹Solera Diquat Landscape and Aquatic Herbicide controls *Potamogeton* species except Richardson's pondweed, *P. richardsonii*.

²Suppression only. For control of *Spirogyra* and/or *Pithophora*, use Solera Diquat Landscape and Aquatic Herbicide in a tank mix with an approved algaecide.

For severe weed or algae infestations, the use of an approved algaecide either as a pretreatment to the Solera Diquat Landscape and Aquatic Herbicide application or in a tank mix, may result in enhanced weed control.

To control submersed weeds, apply Solera Diquat Landscape and Aquatic Herbicide in water at 0.5-2.0 gallons per surface acre (per 4 foot water depth). For severe weed infestations, use the 2.0 gallon per surface acre rate. For best results, re-treat as necessary on 14-21 day intervals. The table below shows how many gallons of Solera Diquat Landscape and Aquatic Herbicide to apply per surface acre based on water depth.

	Gallons of Solera Diquat Landscape and Aquatic Herbicide per Surface Acre Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0.25 gal.	0.50 gal.	0.75 gal.	1.0 gal.
2 gallon/acre rate	0.50 gal.	1.0 gal.	1.5 gal.	2.0 gal.

Note: For water depths of 2 feet or less including shorelines, do not exceed 1 gallon per surface acre.

Subsurface Applications: Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement: Where submersed weeds such as Hydrilla, Bladderwort, or Coontail have reached the water surface and/or where the water is slowly moving through the weed growth, the use of an invert emulsion carrier injecting diluted Solera Diquat Landscape and Aquatic Herbicide near the bottom with weighted hoses may improve control. The addition of a copper based algaecide may improve control. If algae are present along with the submersed weeds, a pretreatment with a copper based algaecide may improve overall control.

Surface Application for Submerged Aquatic Weeds: Apply the recommended rate of Solera Diquat Landscape and Aquatic Herbicide as a spray in sufficient carrier to fully cover the target area. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present. For dense submersed weeds or water over 2 feet deep, a surface spray is not recommended (Solera Diquat Landscape and Aquatic Herbicide should be applied subsurface in these situations.)

If posting is required by your state or tribe – consult the agency responsible for pesticide regulations for specific details.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather, conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Source Dynamics LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: SOURCE DYNAMICS LLC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Source Dynamics LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

SOURCE DYNAMICS LLC DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT SOURCE DYNAMICS LLC'S ELECTION, THE REPLACEMENT OF PRODUCT.

[illegible]

DP BARCODE No.: D 361152 **REG. No.:** 82542-RU **PRODUCT NAME:** Solera Diquat Landscape and Aquatic Herbicide
DATE: April 9, 2009

SUBJECT: **PRODUCT CHEMISTRY REVIEW OF TGA/MP [] EP [Y]**
DP BARCODE No.: D 361152 **REG. No.:** 82542-RU
PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide
COMPANY: Source Dynamics LLC
PCC: 032201 ; **Decision No.:** 404345 ; **ACTION CODE:** R301
FOOD USE [N]
INTEGRATED FORMULATION: Yes [] No [x]

FROM: Akiva Abramovitch, Ph. D.
Technical Review Branch (7505P) *AK* *SR*

THRU: Shyam B. Mathur,
Product Chemistry Team Leader
Technical Review Branch/RD (7505P) *SRM 4/11/09*

TO: Dianne Morgan/ Joanne Miller, RM 23
Herbicide Branch / RD (7505P)

INTRODUCTION

Source Dynamics has submitted product chemistry data for to support the registration of the end use product Solera Diquat 2L Desiccant. TRB has been asked to evaluate the product chemistry data (Group A & B) under MRID 47634001 through 03 and 47633901-02. To support the registration of the proposed product, the registrant has requested to bridge the product chemistry data submitted earlier in support of other product of Diquat Dibromide 37.3%" with File Symbol No. 83529-RE, RG and 79676-TL that have been reviewed previously by TRB (DP343449, 09/19/07, DP344335, 10/17/07 and DP348739, 2/7/08) and were found acceptable. The registrant provided data compensation forms with an offer to pay for the data that was used from other registrants to support product chemistry data requirements.

The registrant also submitted the proposed product label and the proposed basic and alternate CSFs (dated 11-29-08 and replacement CSFs for the basic and alternate formulations dated 4/10/09). The registrant also claimed that the proposed product is substantially similar to the registered product EPA Reg. No. 100-1061. TRB was asked to review the submitted data to determine its acceptability and whether the "similarity claim" to Reglone desiccant, EPA Reg. No. 100-1061 can be substantiated.

SUMMARY OF FINDINGS

1. The end use product contains 37.3% Diquate dibromide as the nominal concentration for the active ingredient with the product label claim of 37.3%.
2. The CSF for basic formulation dated 11/29/2008 was rejected and replaced by revised CSFs for the basic and alternate formulations dated April 10, 2009. The revised CSFs were filled out correctly & completely. The nominal concentration of the active ingredient concurs with the label claim. All the inert ingredients in the formulation are approved by the Agency for the proposed label uses. The registrant has proposed standard certified limits as set forth in the table of 40 CFR158.175 (b)(2) for the all the inert ingredients.
3. The submitted product chemistry data corresponding to test guidelines 830.1550 (product identity and composition) satisfy the data requirement.

DP BARCODE No.: D 361152 **REG. No.:** 82542-RU **PRODUCT NAME:** Solera Diquat Landscape and Aquatic Herbicide

4. The submitted product chemistry data corresponding to Guideline 830.1600 (description of materials used to produce the product) including 830.1650 (description of formulation process) and 830.1670 (discussion of the formation of impurities) satisfy the data requirements.

5. The petitioner submitted information for guideline 830.1800 (enforcement analytical method) that must be validated and certified under GLP to satisfy the data requirements.

6. The Storage Stability (830.6317) and the Corrosion Characteristics (830.6320) data can be accepted from other registrants with the offer to pay only when identical packaging is used for these products. Information about the packaging was not provided to support the use of the cited data.

CONCLUSIONS

1. TRB has evaluated the product chemistry data and the proposed revised CSFs for the basic and alternate formulations (dated 04/9/09) and has found them to be acceptable.

2. The Storage Stability (830.6317) and the Corrosion Characteristics (830.6320) data requirements was not satisfied. The registrant cannot use others data with an offer to pay unless the packaging are identical

3. This product is similar to the "me too" cited product from product chemistry perspective. The physical properties and chemical composition of the two products are very much comparable. The product is also identical to products 83529-12, 83529-13 and 79676-75.

4. The registrant offered to pay for data that was used for the registrations of identical products under registration numbers 83529-13 (RG), 83529-12 (RE) and 79676-75(TL).

5. The enforcement analytical method was referenced from CIPAC page 73-9 and described in MRID 47634003.

6. With the exception of item 2 above, all the remaining data requirements are considered satisfied

830 series group A & group B data

Subgroup A	<u>Data Required</u> <u>Fulfilled</u>	<u>MRID No.</u>
830.1550. Chemical Identity (basic CSF)	A	47634001,47633901
830.1600. Beginning Materials	A	47634001,47633901
830.1650. Formulation Process	N	47634001,4763390
830.1670. Discussion of Impurities	A	47634001,4763390
830.1700. Preliminary Analysis	NA	
830.1750. Certified Limits (basic CSF)	A	47634002 (replaced by April 10, 2009 basic and alternate CSFs)
830.1800. Enforcement Analytical Method	A	47634003 CIPAC pages 73-8

DP BARCODE No.: D 361152 REG. No.: 82542-RU PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide

830 series group B	Data Required Fulfilled	Value or Qualitat. Descrip.	MRID No.
830.6302. Color	A	Dark brown	47251902, 47251903
830.6303. Physical State	A	Liquid	47300002 47251903
830.6304. Odor	A	No significant odor	47251902 47251903
830.6314. Oxidation/Reduction Action	NA	Reacts with aluminum releasing hydrogen gas	47300002
830.6315. Flammability	A	Non Flammable	47300003
830.6316. Explodability.	NA	Does not explode	47300003
830.6317. Storage stability	I	A study is required (see conclusion item 2)	
830.6319. Miscibility	NA		47203502
830.6320. Corrosion Characteristics	I	A study is required (see conclusion item 2)	
830.6321. Dielectric Breakdown Voltage	NA	Not for use near electricity	47300003
830.7000. pH	A	5.5-6.5	47300002
830.7100. Viscosity 20 °C	A	1.5-1.7 cps	47203502 47300003
830.7300. Specific gravity 20°C	A	1.2 g/cu. cm	47203502 47300003

Explanations: A = The Requirements Were Fulfilled; N = The Requirements Were Not Fulfilled; NA = Not Applicable; G = Data Gap; U = Requires Upgrading; I = Incomplete or In Progress; W = Waived.

The apparatus and parameters for the analytical method used to satisfy guideline 830.1800 are listed on the following page below:

DP BARCODE No.: D 361152 REG. No.: 82542-RU PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide

CONFIDENTIAL APPENDIX
INTRODUCTION

Diquat formulations containing 37.3% diquat dichloride have been approved for use in the United States for some years. These products contain 2.0 lb of diquat cation per gallon and 37.3% by weight diquat dichloride. Currently registered products include the following:

Syngenta Crop Protection, Inc.

Reglone Desiccant (EPA Reg. No. 100-1061)

Reward Manufacturing Concentrate (EPA Reg. No. 100-1063)

Reward Landscape and Aquatic Herbicide (EPA Reg. No. 100-1091)

Sewer Sciences, Inc.

Razorooter II (EPA Reg. No. 64898-8)

Helm Agro U.S., Inc.

Helm Diquat Ag (EPA Reg. No. 74530-24)

Helm Diquat Aquatic (EPA Reg. No. 74530-25)

Gro-Pro, LLC

ETI 116 01 H A (EPA Reg. No. 79676-75)

Phoenix Environmental Care, LLC

Redwing (EPA Reg. No. 81943-23)

Source Dynamics, LLC, wishes to register a substantially similar product. This document consists of a description of the manufacturing process for the product and addresses the formation of post-production impurities.

Section 2

PRODUCT IDENTITY

Common Name: diquat dibromide (active ingredient)

Chemical Name: 1,1'-ethylene-2,2'-bipyridilium dibromide [IUPAC]
6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazinediium dibromide [CA]

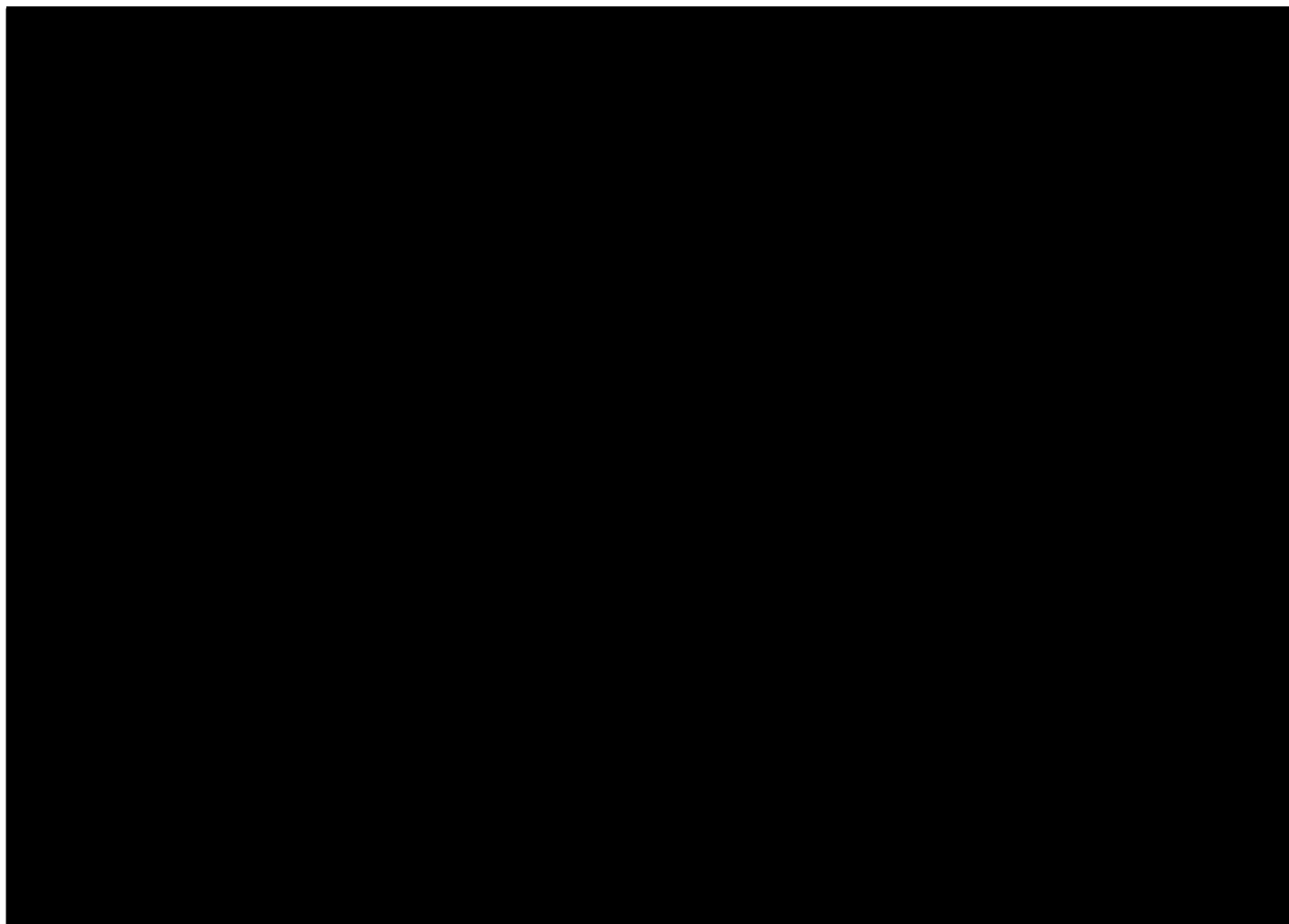
CASRN: 85-00-7 (diquat)
6385-62-2 (diquat dibromide)

Product Name: Solera Diquat Landscape and Aquatic Herbicide

Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: D 361152 **REG. No.:** 82542-RU **PRODUCT NAME:** Solera Diquat Landscape and Aquatic Herbicide

DESCRIPTION OF BEGINNING MATERIALS AND MANUFACTURING PROCESS



THEORETICAL DISCUSSION OF IMPURITIES

Solera Diquat Landscape and Aquatic Herbicide after manufacture will immediately be packaged in air-tight, light-proof plastic containers. Experience has shown that virtually identical formulations are stable for at least one year under these conditions. The formation of impurities under such conditions has not been observed.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1 hour per response for registration activities and 1 hour per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

SUMMARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR Notice 98-1)

1. PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide		2. Reg. No. 82542-RU
3. COMPANY NAME: Source Dynamics LLC		4. SUBMISSION DATE: April 13, 1009
5. FIRST SUBMISSION <input type="checkbox"/>	7. PESTICIDE TYPE: herbicide	10. REGISTRATION <input checked="" type="checkbox"/>
6. RESUBMISSION <input checked="" type="checkbox"/>		
8. FORMULATED MANUFACTURING-USE PRODUCT <input type="checkbox"/> or 9. END-USE PRODUCT <input checked="" type="checkbox"/>		11. REREGISTRATION <input type="checkbox"/>
13. PRODUCT MANAGER OR CHEMICAL REVIEW MANAGER #/NAME (IF KNOWN): Joanne Miller (23)		12. REREG CASE #
14. GUIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.
Group B, Series 830-Physical and Chemical Properties (40 CFR 158.190)		
-6302 Color	dark brown (visual)	47203502, 47251903
-6303 Physical State	liquid (visual)	47203502, 47251903
-6304 Odor	none (sensory)	47203502, 47251903
-6314 Oxidation/Reduction: Chemical Incompatibility	reacts with aluminum, releasing hydrogen gas	47203502, 47300002
-6315 Flammability/Flame Extension	non-combustible	47203502, 47300003
-6316 Explodability	does not explode	47203502, 47300003
-6317 Storage Stability	stable >1 year at 25 degrees C (by chemical analysis)	47203502
-6319 Miscibility	soluble in water in all proportions (visual)	47203502
-6320 Corrosion Characteristics	not corrosive to its packaging (HDPE) in 1 year (visual and gravimetric)	47203502
-6321 Dielectric Breakdown Voltage	not applicable; not intended for household use	
-7000 pH	5.5 - 6.5 (neat formulation) (pH probe)	47203502, 47300002
-7100 Viscosity	1.5 - 1.7 cps (viscosimeter)	47203502, 47300002
-7300 Density/Relative Density/Bulk Density	1.20 g/cu. cm.	47203502, 47300002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

**TECHNICAL REVIEW BRANCH
SIMILARITY CLINIC DETERMINATION**

09/APR/2009

MEMORANDUM

Subject: Name of Pesticide Product: Solera Diquat Landscape and Aquatic Herbicide
EPA Reg. No. /File Symbol: 82542-RU
DP Barcode: D361154
Decision No: 404345
Action Code: R301
PC Code: 032201 (diquat dibromide)

From: Eugenia McAndrew, Biologist
Technical Review Branch
Registration Division (7505P)

E. McAndrew *M. Hasher*

To: Dianne Morgan, RM Team 23
Herbicide Branch
Registration Division (7505P)

Applicant: Source Dynamics LLC
10039 E. Troon North Drive
Scottsdale, AZ 85262

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Diquat dibromide	37.3
<u>Inert Ingredient(s):</u>	<u>62.7</u>
Total:	100.0%

ACTION REQUESTED: The Risk Manager requests: The registrant has submitted an application to register this product. They have listed in the data matrix the acute tox studies that will help support their registration. They also cite Reward Manufacturing Concentrate/100-1063 as substantially similar.

BACKGROUND: Source Dynamics LLC has applied for registration of Solera Diquat Landscape and Aquatic Herbicide, EPA File Symbol 82542-RU. The Registrant is using the selective method of data support to satisfy the acute toxicity data requirements. A data matrix citing acute oral, acute dermal, acute inhalation, primary eye irritation and primary skin irritation studies with MRIDs 470990-12 to -16 is provided. A search of the OPP electronic databases shows that these acute toxicity studies were submitted to support the registration of a product with 41.1% active ingredient, Sharda Diquat Concentrate, EPA Reg. No. 82633-2. The studies were reviewed and classified as acceptable in a prior TRB memo (Hashim; D377720; 20/OCT/2007).

RECOMMENDATIONS: TRB has compared the CSFs of 82542-RU, the proposed product, and 82633-2, the cited product, and has determined that the formulations are substantially similar. The cited acute toxicity data may be used to support the registration of the proposed product.

The acute toxicity profile for the proposed product, Solera Diquat Landscape and Aquatic Herbicide, EPA File Symbol 82542-RU, is as follows:

acute oral toxicity	II	cited	MRID 47099012
acute dermal toxicity	III	cited	MRID 47099013
acute inhalation toxicity	III	cited	MRID 47099014
primary eye irritation	III	cited	MRID 47099015
primary skin irritation	III	cited	MRID 47099016
dermal sensitization	negative	cited	EPA Reg. No. 82633-2

The proposed basic CSF dated November 29, 2008 should be approved by the TRB Product Chemistry Team.

LABELING: Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

PRODUCT ID #: 082542-00014

PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide

PRECAUTIONARY STATEMENTS

SIGNAL WORD: WARNING

SPANISH SIGNAL WORD: AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

Hazards to Humans and Domestic Animals:

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A. [Wear protective eyewear.]* Child Resistant Packaging is required due to residential uses on the label and Toxicity Category II for the oral route of exposure.

*[Protective eyewear may be specified, if appropriate.]

First Aid:

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If inhaled:

- Move the person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

User Safety Recommendations:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

December 31, 2008

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-404345
EPA File Symbol or Registration Number: 82542-RU
Product Name: SOLERA DIQUAT LANDSCAPE AND AQUATIC HERBICIDE
EPA Receipt Date: 24-Dec-2008
EPA Company Number: 82542
Company Name: SOURCE DYNAMICS, LLC

RUFUS BASTIAN
SOURCE DYNAMICS, LLC
10039 E. TROON NORTH DRIVE
SCOTTSDALE, AZ 85262-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R301
NEW PRODUCT; IDENTICAL OR SUBSTANTIALLY SIMILAR IN COMPOSITION AND
USE TO A REGISTERED PRODUCT; REGISTERED SOURCE OF ACTIVE
INGREDIENT; SELECTIVE DATA CITATION ONLY FOR DATA ON PRODUCT
CHEMISTRY / ACUTE TOXICITY / PUBLIC HEALTH PEST EFFICACY, WHERE
APPLICANT DOES NOT OWN ALL REQUIRED DATA NOR HAS AUTHORIZATION
LETTER FROM DATA OWNER;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee
Ombudsman at (703) 305-6249.

Sincerely,

Front End Processing Staff
Information Technology & Resources Management Division

Fee for Service

MS
{842296C~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☐ Fee Waiver?
☐ volpay % Reduction:

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 23

Receipt No.

S- 842296

EPA File Symbol/Reg. No.

82542-RU

Pin-Punch Date:

12/24/2008

☐ This item is NOT subject to FFS action.

Action Code:

Requested: R 301

Granted: R 301

Amount Due: \$ 1,638⁰⁰

Parent/Child Decisions:

☒ Inert Cleared for Intended Use *Inerts approved. A. Debesai 1/8/09*

Uncleared Inert in Product

Reviewer: J. Miller

Date: 12/31/08

Remarks:

Your transaction has been successfully completed.

Application Name: PRIA Service Fees
Pay.gov Tracking ID: 24V5E1S4
Agency Tracking ID: 74060334981

Account Holder Name: Terry K Stojic
Transaction Type: Sale
Billing Address: 7364 E Red Hawk Street
City: Mesa
State/Province: AZ
Zip/Postal Code: 85207
Country: USA
Card Type: Visa
Card Number: *****8851
Expiration Date: Sep, 2010
Payment Amount: \$1,638.00
Transaction Date: Dec 15, 2008 4:25:12 PM

Decision Number:
Registration Number:

A collection of 15 small, stylized line drawings of various insects, including beetles, flies, and bees, arranged in a grid-like fashion. The drawings are simple and schematic, focusing on the basic shapes and structures of the insects.

PRIA 2 – 21 Day Content Screen Review Worksheet

PM 23

(EPA/OPP Use Only)

4/9/08

21 Day Screen Start Date: 12-24-2008

Experts In-Processing Signature: MF HARRINGTON Date 1/2/2009 Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>82542-RU</u>		EPA Receipt Date: <u>12-24-2008</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			X		
	a) All inerts, except fragrances, approved for food and non food proposed uses (see Footnote A)	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			Corrected 1/10/09 X	X	
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	TBD by Division MGMT					
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)			Submitted 1/10/09 X	X	
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
		X	X			
	b) Cite-All (Fee category experts use)	X	X			
	c) Applicant owns all data (Fee category experts use)		X			
6	5 Copies of Label (Electronic labels on CD are encouraged)					
7	Is the data package consistent with PR Notice 86-5			p		
8	Notice of Filing (link to included with petitions)				X	

9	If applicable for conventional applications, reduced risk rationale			X
10	Required Data and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

Studies passed 86-5 screening
476339

INFORMS APPROVED.

MISSING PUBLIC/BLACKED-OUT
DATA MATRIX

Public copy must be identical to official copy except
blacked-out sections. Must list data submitters list
for cite-all data.

change check box to selective cite-all

~~Public copy still incorrect, must re-revise. 1/12/09~~

~~Waiting revised CSE 1/12/09.~~

* N/A - Not Applicable

Footnotes

A. This consideration does not apply to PRIA applications that include a request to approve an inert in the fee category. For these PRIA actions, information needs to be submitted to enable the Agency to review the inert approval request and will be a subject of the 21 day content screen. For other types of actions and for fragrances, the answer is only for the Agency's information and current policies, processes, and procedures should be consulted. This worksheet will be updated in the future to be consistent with current policies.

If brand, trade, or proprietary names are being used for some inert ingredients listed on the CSF, alternate names or additional information on the nature of the ingredient(s) should be provided to allow the Agency to determine whether the inert has been approved.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Refer to the list of data requirements. Biopesticide applicants were advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

OPP RD Completeness
Screening
Sent by: Linda Arrington
01/12/2009 09:07 AM

To "Rufus Bastian" <rbastian@solerasd.com>
cc "Erik Brandt" <ebrandt@solerasd.com>, "Jeff Pritchard"
<jpritchard@solerasd.com>, Mindy
Ondish/DC/USEPA/US@EPA, OPP RD Completeness
bcc
Subject Re: Fw: Diquat L&A EPA Response

Dear Mr. Bastian,

Thank you for the revised documents. Your additional new submission of the Formulator's Exemption form has also been received.

Please note that the 21-Day due date for this product is in 2 days. A revised CSF is outstanding and awaiting resubmission. (for 82542-RG)

Sincerely,

Mindy Ondish
RD Completeness Check Team

"Rufus Bastian" <rbastian@solerasd.com>



"Rufus Bastian"
<rbastian@solerasd.com>
01/11/2009 05:22 PM

To Mindy Ondish/DC/USEPA/US@EPA, OPP RD
Completeness Screening@EPA
cc "Jeff Pritchard" <jpritchard@solerasd.com>,
<vstojic@solerasd.com>, "Erik Brandt"
<ebrandt@solerasd.com>
Subject Fw: Diquat L&A EPA Response

Dear Ms. Ondish,

RE: PRIA Completeness Screening Deficiencies (82542-RG & 82542-RU)

In response to your e-mail message on January 6, 2009 we attach our response to 82542-RU.

With regard to 82542-RG we are awaiting a reply from the manufacturer of [REDACTED]. We believe this inert may be registered or perhaps there is a typo in their report to us since they also manufacture [REDACTED] which is registered. We have contacted the manufacturer and hope to have a reply to you within the next few days.

Please acknowledge receipt of this message and if the documents attach referencing 82542-RU meet your requirements.

Thank you very much,

Sincerely,

Rufus Bastian
Source Dynamics
480-502-9289



- Diquat L&A EPA 090110.pdf



"Rufus Bastian"
<rbastian@solerasd.com>
01/06/2009 11:35 AM

To: Mindy Ondish/DC/USEPA/US@EPA
cc
bcc
Subject: Re: PRIA Completeness Screening deficiencies (82542-RG & 82542-RU)

For Follow Up: Urgent Priority

Dear Ms. Ondish,

Thank you for your message. We will look into these deficiencies immediately and reply to you later this week.

Sincerely,

Rufus Bastian
480-502-9289

----- Original Message -----

From: <Ondish.Mindy@epamail.epa.gov>
To: <rbastian@solerasd.com>
Sent: Tuesday, January 06, 2009 9:19 AM
Subject: PRIA Completeness Screening deficiencies (82542-RG & 82542-RU)

>
> Dear Mr. Bastian,
>
> Your two PRIA applications was screened for completeness and found to be
> deficient. Please see enclosed attachments for the specific
> deficiencies.
>
> (See attached file: 82542-RG.20080106.pdf) (See attached file:
> 82542-RU.20080106.pdf)
>
> Please submit the corrections within 7 days of this notice.
>
> Sincerely,
>
> Mindy Ondish
> Completeness Check Team
> Registration Division (7505P)
> Office of Pesticide Programs
> U.S. Environmental Protection Agency
> Phone: (703) 605-0723



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Rufus Bastian

Date: 1/6/2008

Source Dynamics, LLC

10039 E. Troon North Dr.

Scottsdale, AZ 85262

Your email: rbastian@solerasd.com

Subject: File Symbol/Registration No. 82542 - RU

Dear Mr./Ms. Bastian

The above referenced PRIA application was screened by the Registration Division's Completeness Check Team and determined to be deficient. Please see the enclosed copy of our screening checklist for the specific deficiency.

You must submit corrections within 7 days of the date of this notice, to the Completeness Check Team. Include the following Decision Number on your cover letter with the words "Resubmission - For RD's Completeness Check Team" to identify your package.

Decision #D 404345

RESUBMISSION - For RD's Completeness Check Team

You may send in corrections via fax or e-mail, provided that the material is not Confidential Business Information. Our fax number is (703) 347-8932. Our e-mail address is: OPP_RD_Completeness_Screening@epa.gov.

If you cannot meet this time frame, please contact us for further discussions on this matter. My telephone number is (703) 605 - 0723.

Sincerely,

Mindy Ondish

Completeness Check Team
Registration Division (7505P)
U.S. EPA, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Attachment



e-mail: OPP_RD_Completeness_Screening@epa.gov

January 10, 2009

Document Processing Desk (APPL)
Office of Pesticide Programs (7505P)
Environmental Protection Agency
Room S-4900, One Potomac Yard (South Building)
2777 S. Crystal Drive
Arlington, VA 22202

Attn: Mindy Ondish, Registration Division

Dear Ms. Ondish:

Subject: Solera Diquat Landscape and Aquatic Herbicide
(EPA File Symbol 82542-RU): Decision #D 404345

Thank you for your fax of January 6. Please find enclosed the following:

Certification with Respect to Citation of Data indicating selective cite-all support.
Full data matrix listing all data submitters.
Redacted data matrix.
Formulator's Exemption Statement.

Again, thank you for your help. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President
Source Dynamics LLC
rbastian@solerasd.com
telephone (480) 502-9289

10039 E. Troon North Drive
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268

Form approved. OMB No. 2070-0060, 2070-0057, 20 0-0107, 2070-0122, 2070-0164.

<p>United States Environmental Protection Agency Washington, DC 20460 Formulator's Exemption Statement (40 CFR 152.85)</p>								
Applicant's Name and Address Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, AZ 85262	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">EPA File Symbol/Registration Number 82542-RU</td> </tr> <tr> <td style="padding: 5px;">Product Name Solera Diquat 2L Desiccant</td> </tr> <tr> <td style="padding: 5px;">Date of Confidential Statement of Formula (EPA Form 8570-4) 01/09/2009</td> </tr> </table>		EPA File Symbol/Registration Number 82542-RU	Product Name Solera Diquat 2L Desiccant	Date of Confidential Statement of Formula (EPA Form 8570-4) 01/09/2009			
EPA File Symbol/Registration Number 82542-RU								
Product Name Solera Diquat 2L Desiccant								
Date of Confidential Statement of Formula (EPA Form 8570-4) 01/09/2009								
As an authorized representative of the applicant for registration of the product identified above, I certify that:								
<p>(1) This product contains the following active ingredient(s):</p> <p style="margin-left: 40px;">diquat dibromide</p> <p>(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).</p> <p>(3) Indicate by checking (A) or (B) below which paragraph applies:</p> <p><input type="checkbox"/> (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).</p> <p style="text-align: center;">OR</p> <p><input checked="" type="checkbox"/> (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.</p> <p>(4) The following active ingredients in this product qualify for the formulator's exemption.</p>								
Source								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Active Ingredient</th> </tr> <tr> <td style="padding: 5px;">diquat dibromide</td> </tr> </table>	Active Ingredient	diquat dibromide	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Product Name</th> </tr> <tr> <td style="padding: 5px;"> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> OR <div style="background-color: black; width: 200px; height: 15px; margin-bottom: 5px;"></div> </td> </tr> </table>	Product Name	<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> OR <div style="background-color: black; width: 200px; height: 15px; margin-bottom: 5px;"></div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Registration Number</th> </tr> <tr> <td style="padding: 5px;"> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> </td> </tr> </table>	Registration Number	<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div>
Active Ingredient								
diquat dibromide								
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Signature</th> </tr> <tr> <td style="padding: 5px;"> </td> </tr> </table>	Signature		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Name and Title</th> </tr> <tr> <td style="padding: 5px;">Rufus Bastian, President</td> </tr> </table>	Name and Title	Rufus Bastian, President	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Date</th> </tr> <tr> <td style="padding: 5px;">01/09/2009</td> </tr> </table>	Date	01/09/2009
Signature								
Name and Title								
Rufus Bastian, President								
Date								
01/09/2009								

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 - EPA
Copy 2 - Applicant copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, AZ 85262	EPA Registration Number/File Symbol 82542-RU
Active Ingredient(s) and/or representative test compound(s) diquat dibromide	Date Jan. 9, 2009
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) terrestrial food, terrestrial nonfood	Product Name Solera Diquat Landscape and Aquatic Herbicide

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☐

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). <input type="checkbox"/>	I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). <input checked="" type="checkbox"/>
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements:] I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. ☒

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.


I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 1/9/2009	Typed or Printed Name and Title Rufus Bastian, President, Source Dynamics LLC
--	------------------	--

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 1/9/2009		EPA Reg No./File Symbol 82542-RUx		Page 1 of 5	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRDDUCT CHEMISTRY					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1670	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis	NEW	not applicable; not a technical material		
830.1750	certification of limits	NEW	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	NEW	Source Dynamics LLC	OWN	
830.6302	color	47251903	Etigra LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6303	physical state	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6304	odor	47251903	Etigra LLC	PAY	
		47203502	Sharda USA LLC	PAY	
Signature 			Name and Title: Rufus Bastian, President		Date: 1/9/2009

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DATA MATRIX

Date 1/9/2009	EPA Reg No./File Symbol 82542-RU	Page 2 of 5
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262	Product Solera Diquat Landscape and Aquatic Herbicide	

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	stability to normal and elevated temperatures		not applicable; not a technical material		
830.6314	oxidation / reduction: chemical incompatibility	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6315	flammability	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6316	explosibility	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6317	storage stability	47203502	Sharda USA LLC	PAY	
630.6319	miscibility	47203502	Sharda USA LLC	PAY	
830.6320	corrosion characteristics	47203502	Sharda USA LLC	PAY	
830.8321	dielectric breakdown voltage	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7000	pH	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7050	UV / visible absorption		not applicable; not a technical material		

Signature 	Name and Title: Rufus Bastian, President	Date: 1/9/2009
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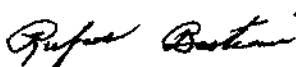
Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 1/9/2009		EPA Reg No./File Symbol 82542-RU		Page 3 of 5	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7100	viscosity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7200	melting point		not applicable: not a technical material		
830.7220	boiling point		not applicable: not a technical material		
830.7300	density / relative density/specific gravity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7370	dissociation constant in water		not applicable: not a technical material		
830.7570	octanol / water partition coefficient		not applicable: not a technical material		
830.7840	water solubility		not applicable: not a technical material		
830.7860	solubility in organic solvents		not applicable: not a technical material		
830.7950	vapor pressure		not applicable: not a technical material		
TOXICOLOGY					
870.1100 (81-1)	acute oral toxicity	47099012	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.1200 (81-2)	acute dermal toxicity	47099013	Sharda Worldwideexports Pvt. Ltd.	PAY	
Signature <i>Rufus Bastian</i>			Name and Title: Rufus Bastian, President		Date: 1/9/2009

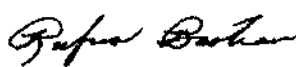
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DATA MATRIX

Date 1/9/2009			EPA Reg No./File Symbol 82542-RU		Page 4 of 5
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262			Product Solera Diquat Landscape and Aquatic Herbicide		
Ingredient Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	acute inhalation toxicity	47099014	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2400 (81-4)	acute eye irritation	47099015	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2500 (81-5)	acute dermal irritation	47099016	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2600 (81-6)	skin sensitization	47050705	Syngenta Crop Protection, Inc.	PAY	
		00155475	The Scotts Company	DLD	
other Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 880: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	
Signature 			Name and Title: Rufus Bastian, President		Date: 1/9/2009

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Date 1/9/2009		EPA Reg No./File Symbol 82542-RU		Page 5 of 5	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Other Series 870: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
			Agricultural Handlers Exposure Task Force	PAY	
			Gro-Pro, LLC	PAY	
			Eligre, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	
Signature 		Name and Title: Rufus Bastian, President		Date: 1/9/2009	

501

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reviewing the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 12/13/2008

EPA Reg No./File Symbol 82542-x

Page 1 of 2

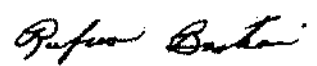
Applicant's/Registrant's Name & Address

Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale, AZ 85262

Product

Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	
			Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
			Agricultural Handlers Exposure Task Force	PAY	
Signature			Name and Title Rufus Bastian, President		Date 12/13/2008

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DATA MATRIX

Date 12/13/2008	EPA Reg No./File Symbol 82542-x	Page 2 of 2
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262	Product Solera Diquat Landscape and Aquatic Herbicide	

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Gro-Pro, LLC	PAY	
			Etigra, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	
			Source Dynamics LLC	OWN	
Signature 07 <i>Rufus Bastian</i>			Name and Title Rufus Bastian, President		Date 12/13/2008



December 15, 2008

Document Processing Desk (APPL)
Office of Pesticide Programs (P7504C)
Environmental Protection Agency
Room S-4900, One Potomac Yard (South Building)
2777 S. Crystal Drive
Arlington, VA 22202

Attn: Joanne I. Miller (PM 23), Registration Division

Dear Ms. Miller:

Subject: Solera Diquat Landscape and Aquatic Herbicide: Registration Application

Source Dynamics LLC wishes to apply for the registration of a new end-use product, Solera Diquat Landscape and Aquatic Herbicide. This product is substantially similar to several registered products. In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)
Confidential Statement of Formula (8570-4)
Certification with Respect to Citation of Data (8570-34)
Data Matrix (8570-35)
Summary of the Physical/Chemical Properties (8570-36)
Self-Certification Statement for the Physical/Chemical Properties (8570-37)
Proposed label (6 copies)
Supporting studies (3 copies, with Data Transmittal Document)

We have concluded that this regulatory action falls in PRIA II Category R301, for which a fee of \$1,838 is required. Proof of payment is enclosed.

Thank you for your consideration of this project. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President
Source Dynamics LLC
rbastian@solerasd.com



DATA TRANSMITTAL DOCUMENT

Name and Address of Submitter

Source Dynamics LLC
10039 E. Troon North Drive
Scottsdale, AZ 85262

Regulatory Action in Support of Which This Package is Submitted

Application for Pesticide Registration: Solera Diquat Landscape and Aquatic Herbicide

Transmittal Date

December 14, 2008

List of Submitted Studies (3 Copies of Each)

R. Bastian, "Solera Diquat Landscape and Aquatic Herbicide: Product Identity, Description of Materials, Manufacturing Process and Discussion of Impurities," Report No. SD081213 (December 13, 2008), 11 pages, OPPTS 830.1550, 830.1600, 830.1620 and 830.1670

MRID No
47633901

R. Bastian, "Solera Diquat Landscape and Aquatic Herbicide: Certification of Limits," Report No. SD081214 (December 14, 2008), 7 pages, OPPTS 830.1750

MRID # 47633902

Company Official:
Company Name:
Company Contact:

Rufus Bastian Signature: Rufus Bastian
Source Dynamics LLC
Rufus Bastian, President
rbastian@solerasd.com
telephone (480) 502-9289



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 82542-x <u>RU</u>	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Solera Diquat Landscape and Aquatic Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>100-1063</u> Product Name <u>Reward Manufacturing Concentrate</u>	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Registration application for a product that is substantially similar to 8 registered products containing 37.3% diquat dibromide

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 2.5 gal		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rufus Bastian	Title President	Telephone No. (Include Area Code) 480-502-9289
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Rufus Bastian	5. Date November 28, 2008	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

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Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number
Source Dynamics LLC
10039 E. Troon North Drive
Scottsdale, AZ 85262

EPA Registration Number/File Symbol
82542-x

Active Ingredient(s) and/or representative test compound(s)
diquat dibromide

Date
November 28, 2008

General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158)
terrestrial nonfood, aquatic nonfood

Product Name
Solera Diquat Landscape and Aquatic Herbicide

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☐

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☒

I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). ☐

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements] I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. ☒

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

Rufus Bastian

Date
11/28/2008

Typed or Printed Name and Title
Rufus Bastian, President, Source Dynamics LLC



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20460

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**SELF-CERTIFICATION STATEMENT FOR THE
 PHYSICAL/CHEMICAL PROPERTIES (PR NOTICE 98-1)**

Product Name: Solera Diquat Landscape and Aquatic Herbicide

Reg. No./File Symbol No.
 (if known) or Company No. 82542-x

SELF-CERTIFICATION STATEMENT:

I certify that the reported information on the "Summary Form" represents a true and accurate record of the test results of studies generated or owned by (Company Name): Sharda USA, LLC and Sharda World-wideexports Pvt., Ltd. and that the values of the properties reported are reliable.

I further certify that such data were generated in substantial conformity with OPPTS Test Guideline Series 830 Product Properties, applicable to my product, and in effect at the time of submission.

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of section 12(a)(2)(N) of FIFRA without opportunity for hearing, if I have not submitted to EPA within thirty (30) days of receipt of a request by the Agency, or within a specified time agreed to by the Agency, test results of studies summarized in the "Summary Form."

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of sections 12(a)(2)(N), 12(a)(2)(Q), or 12(a)(2)(R) of FIFRA without opportunity for hearing, if I fail to provide to EPA within thirty (30) days of receipt of a notification of error, or within a specified time agreed to by the Agency, information that EPA determines is required to correct the error.

Type Applicant's Name: Rufus Bastian

Title: President, Source Dynamics LLC

Telephone No. 480-502-9289

Applicant's Signature:

Rufus Bastian

Date: December 8, 2008

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DATA MATRIX

Date 12/10/2008

EPA Reg No./File Symbol 82542-x

Page 1 of 4

Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1670	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis	NEW	not applicable; not a technical material		
830.1750	certification of limits	NEW	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	NEW	Source Dynamics LLC	OWN	
830.6302	color	47251903	Eligra LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6303	physical state	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6304	odor	47251903	Eligra LLC	PAY	
		47203502	Sharda USA LLC	PAY	

Signature

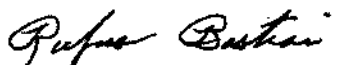


Name and Title: Rufus Bastian, President

Date: 12/10/2008

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DATA MATRIX

Date 12/10/2008		EPA Reg No./File Symbol 82542-		Page 2 of 4	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	stability to normal and elevated temperatures		not applicable; not a technical material		
830.6314	oxidation / reduction; chemical incompatibility	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6315	flammability	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6316	explosibility	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.6317	storage stability	47203502	Sharda USA LLC	PAY	
630.6319	miscibility	47203502	Sharda USA LLC	PAY	
830.6320	corrosion characteristics	47203502	Sharda USA LLC	PAY	
830.6321	dielectric breakdown voltage	47300003	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7000	pH	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7050	UV / visible absorption		not applicable; not a technical material		
Signature 			Name and Title: Rufus Bastian, President		Date: 12/10/2008

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DATA MATRIX

Date 12/10/2008

EPA Reg No./File Symbol 82542-

Page 3 of 4

Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

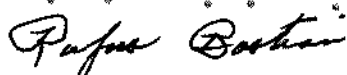
Ingredient Diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7100	viscosity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7200	melting point		not applicable: not a technical material		
830.7220	boiling point		not applicable: not a technical material		
830.7300	density / relative density/specific gravity	47300002	Gro-Pro LLC	PAY	
		47203502	Sharda USA LLC	PAY	
830.7370	dissociation constant in water		not applicable: not a technical material		
830.7570	octanol / water partition coefficient		not applicable: not a technical material		
830.7840	water solubility		not applicable: not a technical material		
830.7860	solubility in organic solvents		not applicable: not a technical material		
830.7950	vapor pressure		not applicable: not a technical material		

TOXICOLOGY

870.1100 (81-1)	acute oral toxicity	47099012	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.1200 (81-2)	acute dermal toxicity	47099013	Sharda Worldwideexports Pvt. Ltd.	PAY	

Signature




Name and Title: Rufus Bastian, President

Date: 12/10/2008


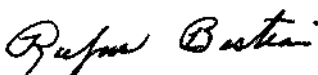
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DATA MATRIX

Date 12/10/2008			EPA Reg No./File Symbol 82542-		Page 4 of 4
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale AZ 85262			Product Solera Diquat Landscape and Aquatic Herbicide		
Ingredient Diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	acute inhalation toxicity	47099014	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2400 (81-4)	acute eye irritation	47099015	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2500 (81-5)	acute demal irritation	47099016	Sharda Worldwideexports Pvt. Ltd.	PAY	
870.2600 (81-6)	skin sensitization	47050705	Syngenta Crop Protection, Inc.	PAY	
		00155475	The Scotts Company	OLD	
Series 870 all other	multiple	multiple	multiple	PAY	
Series 810	Product Performance	multiple	multiple	PAY	
Series 835	Fate, Transport and Transformation	multiple	multiple	PAY	
Series 840	Spray Drift	multiple	multiple	PAY	
Series 850	Ecological Effects	multiple	multiple	PAY	
Series 860	Residue Chemistry	multiple	multiple	PAY	
Series 875	Occupational and Residential Exposure	multiple	multiple	PAY	
Signature 			Name and Title: Rufus Bastian, President		Date: 12/10/2008

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DATA MATRIX

Date 12/13/2008		EPA Reg No./File Symbol 82542-x		Page 1 of 2	
Applicant's/Registrant's Name & Address Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262		Product Solera Diquat Landscape and Aquatic Herbicide			
Ingredient diquat dibromide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Syngenta Crop Protection, Inc.	PAY	
			Nufarm Americas, Inc.	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			ABC Compounding Co., Inc.	PAY	
			Great Lakes Chemical Corp.	PAY	
			Chemisco	PAY	
			Valent USA Corporation	PAY	
			Spray Drift Task Force	PAY	
			Outdoor Residential Exposure Task Force	PAY	
			Agricultural Reentry Task Force	PAY	
			Monsanto Lawn & Garden Products	PAY	
			FIFRA Endangered Species Task Force LLC	PAY	
			Residential Exposure Joint Venture	PAY	
Agricultural Handlers Exposure Task Force	PAY				
Signature 			Name and Title Rufus Bastian, President		Date 12/13/2008

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DATA MATRIX

Date 12/13/2008	EPA Reg No./File Symbol 82542-x	Page 2 of 2
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Applicant's/Registrant's Name & Address
Source Dynamics LLC
10039 E. Troon North Drive, Scottsdale, AZ 85262

Product
Solera Diquat Landscape and Aquatic Herbicide

Ingredient diquat dibromide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Gro-Pro, LLC	PAY	
			Etigra, LLC	PAY	
			Sharda Worldwideexports Pvt., Ltd.	PAY	
			Sharda USA LLC	PAY	
			Althea Laboratories, Inc.	PAY	

Signature

Rufus Bastian

Name and Title
Rufus Bastian, President

Date 12/13/2008



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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SUMMARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR Notice 98-1)

1. PRODUCT NAME: Solera Diquat Landscape and Aquatic Herbicide		2. Reg. No. 82542-x
3. COMPANY NAME: Source Dynamics LLC		4. SUBMISSION DATE: December 8, 2008
5. FIRST SUBMISSION <input checked="" type="checkbox"/>	7. PESTICIDE TYPE: herbicide	10. REGISTRATION <input checked="" type="checkbox"/>
6. RESUBMISSION <input type="checkbox"/>		
8. FORMULATED MANUFACTURING-USE PRODUCT <input type="checkbox"/> or 9. END-USE PRODUCT <input checked="" type="checkbox"/>		11. REREGISTRATION <input type="checkbox"/>
13. PRODUCT MANAGER OR CHEMICAL REVIEW MANAGER #/NAME (IF KNOWN): Joanne Miller (23)		12. REREG CASE #
14. GUIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.
Group B, Series 830-Physical and Chemical Properties (40 CFR 158.190)		
-6302 Color	dark brown (visual)	47203502
-6303 Physical State	liquid (visual)	47203502
-6304 Odor	none (sensory)	47203502
-6314 Oxidation/Reduction: Chemical Incompatibility	reacts with aluminum, releasing hydrogen gas	47203502
-6315 Flammability/Flame Extension	non-combustible	47203502
-6316 Explosibility	does not explode	47203502
-6317 Storage Stability	stable >1 year at 25 degrees C (by chemical analysis)	47203502
-6319 Miscibility	soluble in water in all proportions (visual)	47203502
-6320 Corrosion Characteristics	not corrosive to its packaging (HDPE) in 1 year (visual and gravimetric)	47203502
-6321 Dielectric Breakdown Voltage	not applicable; not intended for household use	47203502
-7000 pH	5.5 - 6.5 (neat formulation) (pH probe)	47203502
-7100 Viscosity	1.5 - 1.7 cps (viscosimeter)	47203502
-7300 Density/Relative Density/Bulk Density	1.20 g/cu. cm.	47203502

SOLERA DIQUAT LANDSCAPE and AQUATIC HERBICIDE

Solera Diquat Landscape and Aquatic Herbicide contains diquat dibromide, the active ingredient used in Reward^R.

**TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL.
DO NOT USE THIS PRODUCT FOR REFORMULATION.**

ACTIVE INGREDIENT

Diquat dibromide [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinediium dibromide].....37.3%

OTHER INGREDIENTS:.....62.7%

TOTAL 100%

Contains 2.0 lbs. diquat cation per gal as 3.73 lbs. salt per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN

To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion, or continuous hemodialysis.



Manufactured for:

Source Dynamics, LLC
10039 E. Troon North Dr.
Scottsdale, Az. 85262

EPA Registration No: 32542-x
EPA Est. No.: XXXXX-XXX
Net Contents: 2.5 Gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some of the materials that are chemical-resistant to this product are: barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils). If you want more options, follow the instructions for category A on an EPA Chemical-Resistance Category Selection Chart.

Applicators and Other Handlers Must Wear:

- Coveralls over short-sleeved shirt and short pants or coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- Face shield when mixing or loading.

Exception: After this product has been diluted to 0.50% Solera Diquat or less in water (i.e., the labeled rate for some spot applications), applicators for AQUATIC SURFACE APPLICATIONS must, at a minimum, wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Waterproof gloves.
- Protective eyewear.

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants.
- Waterproof gloves.
- Chemical-resistant footwear plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. When using the closed system, mixers and loaders PPE requirements may be reduced or modified as specified in the WPS. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For Terrestrial Uses do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. For Aquatic Uses do not apply directly to water except as specified on this label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants, or coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides {40 CFR Part 170}. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F.

PESTICIDE DISPOSAL: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins.

to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

SPECIFIC USE DIRECTIONS

Solera Diquat Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. – except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass – nonfood or feed crop); and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Solera Diquat Landscape and Aquatic Herbicide controls weeds by interfering with photosynthesis within green plant tissue. Weed plants should be succulent and actively growing for best results. Rinse all spray equipment thoroughly with water after use. Avoid spray drift to crops, ornamentals, and other desirable plants during application, as injury may result. Application to muddy water may result in reduced control. Minimize creating muddy water during application. Use of dirty or muddy water for Solera Diquat Landscape and Aquatic Herbicide dilution may result in reduced herbicidal activity. Avoid applying under conditions of high wind, water flow, or wave action.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. The interaction of many equipment-and-weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations:

- The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

DROPLET SIZE:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections of the label).

CONTROLLING DROPLET SIZE:

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce the droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH:

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT:

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT:

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downside edges for the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

WIND:

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY:

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS:

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixing.

SENSITIVE AREAS:

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

COMMERCIAL GREENHOUSES AND NURSERIES

For general weed control in commercial greenhouses (beneath benches), field grown and container stock, and other similar areas, Solera Diquat Landscape and Aquatic Herbicide may be applied preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray. Solera Diquat Landscape and Aquatic Herbicide may also be applied preemergence in ornamental seed crops (except in the state of California). Avoid contact with desirable foliage as injury may occur. Do not use on food or feed crops.

Spot spray: 1-2 qts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide in a minimum of 15 gals. of water per acre. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture. Use an adequate spray volume to insure good coverage.

ORNAMENTAL SEED CROPS (FLOWERS, BULBS, ETC.) EXCEPT IN THE STATE OF CALIFORNIA

For preharvest desiccation of ornamental seed crops. **NOT FOR FOOD OR FIBER CROPS.**

Broadcast (Air or Ground): 1.5-2 pts. Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per acre in sufficient water (minimum of 5 gals. by air; 15 gals. by ground) for desiccation and weed burndown. Repeat as needed at no less than 5-day intervals up to three applications. Do not use seed, screenings, or waste as feed or for consumption.

DIRECTIONS FOR LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Solera Diquat Landscape and Aquatic Herbicide provides fast control of broadleaf and grassy weeds in industrial, recreational, golf course, commercial, residential, and public areas.

Solera Diquat Landscape and Aquatic Herbicide is a nonselective herbicide that rapidly kills undesirable above ground weed growth in 24-36 hours. Avoid application of Solera Diquat Landscape and Aquatic Herbicide to desirable plants.

Solera Diquat Landscape and Aquatic Herbicide is a contact/desiccant herbicide; it is essential to obtain complete coverage of the target weeds to get good control. Improper application technique and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

Difficult weeds (such as perennial or deeply-rooted weeds) can often be controlled by tank mixing Solera Diquat Landscape and Aquatic Herbicide with other systemic-type herbicides. Refer to other product labels for specific application directions.

For residual weed control, tank mix Solera Diquat Landscape and Aquatic Herbicide with a preemergent herbicide labeled for the intended use site. When mixing Solera Diquat Landscape and Aquatic Herbicide with another herbicide, it is recommended to mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes.

Source Dynamics, LLC has not tested all possible tank mixtures with other herbicides for compatibility, efficacy or other adverse effects. Before mixing with other herbicides Source Dynamics, LLC recommends you first consult your state experimental station, state university or extension agent.

Grounds maintenance weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray to control weeds in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides. Solera Diquat Landscape and Aquatic Herbicide can also be used for weed control around the edges and nonflooded portions of ponds, lakes and ditches.

Trim and Edge weed control: Solera Diquat Landscape and Aquatic Herbicide can be used to eliminate undesired grass and broadleaf plant growth in a narrow band along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches. Vegetation control with Solera Diquat Landscape and Aquatic Herbicide is limited to the spray application width. Do not exceed the labeled rate of Solera Diquat Landscape and Aquatic Herbicide as excessive rates may result in staining of concrete-based materials.

Solera Diquat Landscape and Aquatic Herbicide, since it does not translocate systemically, can be used as an edging or pruning tool when precisely applied to select areas of grass or to undesirable growth on desirable ornamental bedding plants, ground covers, etc.

Industrial weed control: Solera Diquat Landscape and Aquatic Herbicide can be used as a spot or broadcast spray either alone or in combination with other herbicides as a fast burndown or control weeds in rights-of-ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas.

Spot spray: Apply either 1-2 qts. of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. water, or 0.75 oz. (22 mls.) Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in sufficient water to insure good spray coverage. Add the labeled rate of 75% or greater nonionic surfactant per 100 gals. spray mixture. Greater water volumes are necessary if the target plants are tall and/or dense. It is recommended that 60 gals. or greater water volume be used to obtain good coverage of dense weeds.

TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate golf course turf and other turf areas prior to renovation, apply 1-2 pts. of Solera Diquat Landscape and Aquatic Herbicide per acre plus the labeled rate of a 75% or greater nonionic surfactant in 20-100 gals. of water (4 teaspoons of Solera Diquat Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced turf desiccation, especially in the case of thick turfgrass, water volumes should approach 100 gals. of water per acre.

For suppression of regrowth and quick desiccation of treated turfgrass, Solera Diquat Landscape and Aquatic Herbicide may be mixed with other systemic nonselective or systemic postemergence grassy weed herbicides. Refer to other product labels for specific application directions and restrictions.

Avoid spray contact with, or spray drift to, foliage of ornamental plants or food crops.
Do not graze livestock on treated turf or feed treated thatch to livestock.

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NONFOOD OR FEED CROP

For control of emerged annual broadleaf and grass weeds, including Little Barley*, Annual Bluegrass, Bromes including Rescuegrass, Sixweeks fescue, Henbit, Buttercup, and Carolina Geranium in established dormant bermudagrass lawns, parks, golf courses, etc.

Apply 1-2 pts. Solera Diquat Landscape and Aquatic Herbicide per acre in 20-100 gals. of spray mix by ground as a broadcast application. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture.

Bermudagrass must be dormant at application. Application to actively growing bermudagrass may cause delay or permanent injury. Users in the extreme Southern areas should be attentive to the extent of dormancy at the time of application.

*For control of Little Barley, apply Solera Diquat Landscape and Aquatic Herbicide prior to the mid-boot stage.

AQUATIC USE DIRECTIONS

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling.

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game Agencies, State Water Conservation authorities, or Department of Natural Resources).

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, Solera Diquat Landscape and Aquatic Herbicide should be applied to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to still water (i.e. ponds, lakes, and drainage ditches) where there is minimal or no outflow to public waters.

and/or

For applications to **public waters** in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

- Corps of Engineers; or
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); or
- Applicators and/or Licensees (certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation).

Water Use Restrictions Following Applications With Solera Diquat Landscape And Aquatic Herbicide (Days)

Application Rate	Drinking	Fishing and Swimming	Livestock/ Domestic Animals Consumption	Spray Tank Applications** and Irrigation to Turf and Landscape Ornamentals	Spray Tank Applications** and Irrigation to Food Crops, and Production, Ornamentals
2 gals./surface acre	3 days	0	1 day	3 days	5 days

1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (<0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

*Add a nonionic surfactant (with at least 75% of the constituents active as a spray adjuvant) at the rate recommended by the manufacturer.

**For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with Solera Diquat Landscape and Aquatic Herbicide before the specified time period. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Floating and Marginal Weeds Including:

Water lettuce, *Pistia stratiotes*

Water hyacinth, *Eichhornia crassipes*

Duckweed, *Lemna* spp.

Salvinia spp. (including *S. molesta*)

Pennywort (*Hydrocotyle* spp.)

Frog's Bit¹, *Limnobium spongia*

Cattails, *Typha* spp.

¹Not for use in California

Solera Diquat Landscape and Aquatic Herbicide may be applied by backpack, airboat, spray handgun, helicopter, airplane, or similar application equipment that results in thorough spray coverage.

Spot Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at 2 quarts per 100 gallons spray carrier (0.5% solution) with an approved aquatic wetting agent at 0.25-1.0% v/v (1 quart to 1 gallon per 100 gallons water). For cattail control, Solera Diquat Landscape and Aquatic Herbicide should be applied prior to flowering at the maximum application rate (8 quarts of Solera Diquat Landscape and Aquatic Herbicide/100 gallons spray carrier) plus the wetting agent. Repeat treatments may be necessary for complete control.

Spray to completely wet target weeds but not to runoff. Densely packed weeds or mats may require additional applications due to incomplete spray coverage. Re-treat as needed. For best results, retreat weed escapes within 2 weeks of the initial treatment.

Broadcast Treatment: Apply Solera Diquat Landscape and Aquatic Herbicide at the rate of 0.5-2.0 gallons per surface acre in sufficient carrier along with 16-32 oz./A of an approved wetting agent. Re-treat as necessary for densely populated weed areas. Good coverage is necessary for control of the target weeds.

For duckweed control, apply Solera Diquat Landscape and Aquatic Herbicide at 1-2 gallons/A.

Submersed Weeds Including:

Bladderwort, *Utricularia* spp.

Hydrilla, *Hydrilla verticillata*

Watermilfoils (including Eurasian), *Myriophyllum* spp.

Pondweeds¹, *Potamogeton* spp.

Coontail, *Ceratophyllum demersum*

Elodea, *Elodea* spp.

Brazilian Elodea, *Egeria densa*

Naiad, *Najas* spp.

Algae², *Spirogyra* spp. and *Pithophora* spp.

¹Solera Diquat Landscape and Aquatic Herbicide controls *Potamogeton* species except Richardson's pondweed, *P. richardsonii*.

²Suppression only. For control of *Spirogyra* and/or *Pithophora*, use Solera Diquat Landscape and Aquatic Herbicide in a tank mix with an approved algaecide.

For severe weed or algae infestations, the use of an approved algaecide either as a pretreatment to the Solera Diquat Landscape and Aquatic Herbicide application or in a tank mix, may result in enhanced weed control.

To control submersed weeds, apply Solera Diquat Landscape and Aquatic Herbicide in water at 0.5-2.0 gallons per surface acre (per 4 foot water depth). For severe weed infestations, use the 2.0 gallon per surface acre rate. For best results, re-treat as necessary on 14-21 day intervals. The table below shows how many gallons of Solera Diquat Landscape and Aquatic Herbicide to apply per surface acre based on water depth.

	Gallons of Solera Diquat Landscape and Aquatic Herbicide per Surface Acre Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0.25 gal.	0.50 gal.	0.75 gal.	1.0 gal.
2 gallon/acre rate	0.50 gal.	1.0 gal.	1.5 gal.	2.0 gal.

Note: For water depths of 2 feet or less including shorelines, do not exceed 1 gallon per surface acre.

Subsurface Applications: Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement: Where submersed weeds such as Hydrilla, Bladderwort, or Coontail have reached the water surface and/or where the water is slowly moving through the weed growth, the use of an invert emulsion carrier injecting diluted Solera Diquat Landscape and Aquatic Herbicide near the bottom with weighted hoses may improve control. The addition of a copper based algaecide may improve control. If algae are present along with the submersed weeds, a pretreatment with a copper based algaecide may improve overall control.

Surface Application for Submerged Aquatic Weeds: Apply the recommended rate of Solera Diquat Landscape and Aquatic Herbicide as a spray in sufficient carrier to fully cover the target area. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present. For dense submersed weeds or water over 2 feet deep, a surface spray is not recommended (Solera Diquat Landscape and Aquatic Herbicide should be applied subsurface in these situations.)

If posting is required by your state or tribe – consult the agency responsible for pesticide regulations for specific details.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Source Dynamics LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: SOURCE DYNAMICS LLC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Source Dynamics LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

SOURCE DYNAMICS LLC DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT SOURCE DYNAMICS LLC'S ELECTION, THE REPLACEMENT OF PRODUCT.

FOR OFFICIAL USE ONLY

THE SYMBOL

REGISTRATION NO.

82542-RU

CONFIDENTIAL STATEMENT OF FORMULA ENCLOSED

[illegible]

**Do Not Write Comments,
Formula, or Parts of Formula
on This Envelope**

NOTE

It shall be unlawful—for any person to use for his own advantage or to reveal, other than to the Secretary or officials or employees of the United States Department of Agriculture or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons, for use in the preparation of antidotes, in accordance with such directions as the Secretary may prescribe, any information relative to formulas of products acquired by authority of Section 4, of the "Federal Insecticide, Fungicide, and Rodenticide Act."

Pages 131-134-**Confidential Statement of Formula may be entitled to confidential treatment**